CLARK UNIVERSITY BULLETIN

The President's Report

1949 – 1950

WORCESTER, MASSACHUSETTS

CLARK UNIVERSITY BULLETIN

No. 197 November, 1950

The President's Report

1949 – 1950

THE BULLETIN is published January, March, May, September and November

Entered as second-class matter December 29, 1920 at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

CLARK UNIVERSITY

The President's Report for 1949-50

In presenting my fourth annual report I shall contrast the period of the past four years with the one that we appear to be entering in 1950. Although we have lived in a world of uneasy international relations since the close of World War II, the outlines of the conflict between free nations and communist dominated nations have now become so positively sharpened as to mark the beginning of a new era. This situation profoundly affects the management of institutions of higher education. From 1946 to 1950, the colleges and universities were presented with the immediate challenge of performing two services. In the first place, they were called upon to provide facilities for the vast number of undergraduates whose courses of study had been interrupted by military service, and for those who were able to attend college because of the financial provisions of the G. I. Bill. In the second place, they had the gigantic task, at the professional and graduate level, of replenishing the stock of professional men and of scholars so seriously depleted by the years of all-out war effort. In the fall of 1950, however, we find that we must make a new appraisal of the relation between the facilities of higher education and the needs of the nation. How can we provide a sufficient number of young men for the armed services and, at the same time, produce an adequate supply of professional people?

Consider, first, the conditions which prevailed in 1946. At that time an unprecedented number of young men, recently discharged from military service, were seeking admission to our colleges and universities. Like other institutions, Clark found itself with an enrollment considerably in excess of expectations because we felt that it was our obligation to take care of as many students as our facilities would permit. At that time it was difficult to anticipate what the enrollment of the next few years should be. However, the size of the institution increased slightly in 1947 over 1946 and remained at a peak of over 1000 through last year. Since this number was more than twice the enrollment of the institution prior to World War II, and since we had not added to the physical plant, there was considerable doubt as to the wisdom of continuing indefinitely with a student body of these dimensions. Surely one of two procedures was called for: either we should reduce the number of students to a point where the size of the faculty and of the plant could provide the personalized education of high quality which had been characteristic of Clark since its beginning, or we should increase the personnel of the faculty and add to the counselling and other services required by a student body of 1000. Actually, our planning involved a combination of these two procedures, with emphasis upon the latter. While planning for a slightly decreased enrollment, we also, during the past four years, have substantially increased the size of the faculty and the number of services to students. Staff members have been added to nearly every department, and new appointments have enriched our total offerings. In particular, reference should be made to new work in Fine Arts, Government, Philosophy, Russian Language, and Sociology. During the past four years, therefore, we have gradually built up a faculty adequate to our student enrollment. However, the fact that in each of those years the student body was slightly larger than we had anticipated made it possible to operate on a balanced budget.

The contrast between the period of the past four years and the period we are now entering comes into sharp focus, from the point of view of management, when we find that now we have a larger faculty than at any time during the past four years, and that the student body is slightly smaller. At the same time, we are far from overstaffed. An elementary mathematical calculation discloses the fact that if, in the past few years, we did little more than meet expenses, we are now confronted with the unhappy prospect of annual deficits. There are two ways of avoiding these deficits. We can reduce the quality and quantity of our services, and thus be guilty of betraying everything that Clark has stood for; or we can continue with a quality performance and attempt to find new sources of income. Like other institutions, we have increased the tuition from time to time, but, in accordance with the tradition of the University, we have kept the tuition and other expenses at a relatively low figure. In any case, we shall soon reach the point where it is impossible to pass more of the increased costs of operation on to the students.

A second striking contrast between the period of the past four years and the era on which we are now embarking is found in the relation between young men of college age and the needs of the armed forces. Many of our students of the recent past had already served in World War II and were attending college under the G. I. Bill. As we enter the new era, it seems evident that America will have a large number of men under arms for at least a decade and perhaps for an entire generation. In order to maintain a military force of three million or more, large numbers of young men who normally would be attending college will be in the armed services. It is equally evident that in the years to come the national safety and welfare will require an ever-increasing number of trained personnel and that therefore the services which the college can render will be of crucial importance. Doubtless we shall be called upon to perform a variety of specific tasks in the national service at just the time when a decrease in revenue from student tuition presents us with serious problems of management. All of these factors merely intensify the precarious financial situation of our independent colleges and universities.

Unfortunately, there is not a contrast between the past four years and the period we are now entering with respect to the general cost of operation. Many people were assuming that the sharp increase in costs following the close of the war would either level off or be reduced. The plight of the colleges has been made even more serious by the continued increase in the cost of operation and in the cost of living. It has been absolutely mandatory to make increases in faculty salaries, although these have not matched the cost of living index. It is now obvious that additional increases are not only desirable but necessary. The inflationary spiral brings particularly great hardship to colleges and universities and to those people who serve the cause of higher education.

The nature of the problem we are now facing is clear. The prospect of lower enrollment indicates decrease in income. The economic tendencies of the nation indicate continued or even increased cost of operation. The serious responsibilities of America in the world indicate a desperate need for personnel who must be trained in our universities. To all phases of this problem we have given careful consideration and we are now engaged in an effort to find a solution.

The Anniversary

In my last report, written in the fall of 1949, exactly 60 years after the formal opening of the University, I made an analysis of the place of the small university in American higher education. Also I announced that we would celebrate the 60th Anniversary by having a series of events at the University. During 1949–50 we played host to the meetings of four learned societies. On November 19 the Connecticut Valley Economists held their meetings at Clark, and Senator Paul H. Douglas spoke before a closed session of the economists in the afternoon and gave a public lecture in the evening. On December 27–29 we entertained 270 members of the Eastern Division of the American Philosophical Association for their annual meetings. The Association of American Geographers met at the University on

April 5–8. On the evening preceding the regular meetings of the Association, more than 200 who hold degrees from our Graduate School of Geography were entertained at a dinner in the Alumni Gymnasium. They were greeted by Dr. Samuel Van Valkenburg, Director of the School, and the speaker of the evening was Dr. L. Dudley Stamp of the London School of Economics. The Eastern Psychological Association held its meetings at the University on April 20–22. At the same time, Dr. Anna Freud, now of London, gave three lectures sponsored by our own Department of Psychology. The first of these three lectures was a part of a symposium on Genetic Psychology under the chairmanship of Heinz Werner, the G. Stanley Hall Professor of Genetic Psychology at Clark. Other participants in the symposium were Lawrence K. Frank, Director of the Caroline Zachry Institute of Human Development, and Robert R. Sears, Director of the Institute of Human Development and Professor of Education and Child Psychology at Harvard University. The climax of this series was a special convocation following Miss Freud's third lecture at which she was awarded the honorary degree of Doctor of Laws. This occasion took on particular significance because it was just forty years after her father, Sigmund Freud, had been a guest of Clark University and had received the same honorary degree. In addition to playing host to these learned societies, we had two 60th Anniversary Lectures on the night of February 16. These lectures were on the general topic, "The Role of the University in American Life," and were given by President Detlev W. Bronk of The Johns Hopkins University and President Ernest C. Colwell of the University of Chicago.

GENERAL EDUCATION

In my first report I devoted a section to the discussion of the college curriculum. Reference was made to a report on the educational program prepared by a joint Trustee-Alumni-Faculty Committee and also to a series of informal meetings held by the faculty to discuss the implications of this report. I stated as my conviction that a meaningful program of studies could be achieved only on condition that members of the faculty reach a level of mutual understanding resulting in shared purposes and goals. This was deemed far more important than the creation of an apparently new curriculum of general education but which might be, in reality, nothing more than a re-arrangement of old subject matters. Our deliberations have proceeded on the assumption that the ideals and goals of what is now called general education have been present in the curriculum of Clark College from its founding, since Clark has never had a completely free elective system. We have not, therefore, effected a wholesale revision of our undergraduate curriculum. At the same time, we have been far from complacent. Although we realize that undergraduate education must be improved and vitalized, we are convinced that there is no single plan which can serve as a panacea. The quality of education depends largely on the quality of teachers and of teaching. Nevertheless some new courses have been worked out and added to the curriculum after long discussion and planning. Valuable as these courses are, the by-products of the discussion and planning of the new courses are of equal importance. Those who participated in the work of defining the objectives of instruction in general education discovered that they were also re-examining the courses for which they were already responsible and accordingly revised their point of view and methods of teaching. Our philosophy of general education is stated in the following excerpt from a faculty report:

"The idea of General Education does not involve any radically new departure in the objectives and ideals of the college. Courses in General Education would be distinguished from others rather by viewpoint and tone than by content. They would be planned and taught with the aim of stimulating the student to intelligent and critical interest in fields of culture, scientific and non-scientific, where he has no expectation of attaining professional competence; of creating an understanding of the basic unity of knowledge and thought; and of offering at least the opportunity for obtaining a core of information, ideas and vocabulary that he will have in common with many of his contemporaries. It follows that General Education courses would not be devoted to the development of skills or to training in a particular discipline, however broad. They would thus not be a part of pre-professional or pre-vocational education, would be outside the sequence of courses in a student's major, and would not be subject to prerequisites."

Thus far we have created five new courses which are designed particularly to serve the ends of general education. A course in the physical sciences deals with the basic concepts and developments of both classical and modern physics, and deals also with selected topics from the fields of chemistry and astronomy. Stress is placed upon illustrating the methods and procedures of the exact sciences, and there is the analysis of the impact of the sciences upon human thoughts and emotions. A second course is sponsored by the Department of Mathematics and attempts to exhibit the quantitative aspects of reality and thus to show how the abstract and general ideas of mathematics have implications for other fields of knowledge. Although this course is restricted to juniors and seniors, it is designed exclusively for the general student and does not require previous training in mathematics at the college level. In the area of history and the social sciences a course has been constructed to acquaint the student with European and American civilization since 1500, and deals synoptically with the origin and development of political, economic, and intellectual problems and situations.

In the humanities, two general education courses have been devised. In a previous report I referred to one of these—Literature and the Nature of Man. In this course, great works from Classical, German, French, Scandinavian, and English literature are studied with a view to developing an area of knowledge and experience which educated men and women have in common with the eminent creative artists of our Western civilization, and with a view to helping students understand basic problems and humane attitudes that are both constructive and creative. A second course in the humanities deals with great English and American writers. The emphasis is placed, not on tracing literary movements or on studying literary problems *per se,* but on showing what these great figures have to say that is of interest or importance to the general reader today. Since at least two weeks are spent on each author, the student has a chance to determine the attitude toward life of each man, to see what gave rise to that attitude, and to evaluate it and compare it with the views of other writers.

We do not pretend that these are the only courses in the curriculum which serve the ends of general education. The distinguishing mark of such instruction is that the subject matter is treated philosophically or historically. This is not to say that it is taught the way courses in departments of history and philosophy are taught. Courses in these fields can be, and frequently are, taught illiberally. To say that a subject matter is handled philosophically or historically means that it is viewed in perspective. It is treated as a part of the total system of knowledge, having determinable relations to other fields. Or it is given an historical perspective in such a way as to show what human nature has been and what it has become.

Summer School

For a number of years we conducted a twelve-weeks summer term which was designed particularly to enable undergraduates to accelerate their courses of study. This met a genuine need, first during the war years, and later during the years immediately following the war when older students desired to complete their work in less than the customary four years. It seemed evident that this need had been largely met by the end of the summer term in 1949. In 1950, therefore, we reverted to the six-weeks summer school which prior to World War II had been part of the Clark calendar for many years. In setting up the school for 1950, however, we arranged for an integrated program of studies and limited the enrollment to graduate students or advanced undergraduates. The central theme was American citizenship, and in developing this theme we used the resources of the Departments of Economics, Education, English, Geography, and History. The central course was a cooperative venture on Social Factors in American Citizenship, and this was supplemented by a workshop in each of the cooperating departments. In addition, a number of independent but related courses were offered. As is the case with all pioneering ventures, it is difficult to evaluate the success of the 1950 experiment, although we do have evidence that for a great many of the students the School provided a lively educational experience.

STUDENTS

Student initiative and the encouragement of students to take responsibility for their own affairs showed outstanding results during the past year. The newly organized Student Government under a revised constitution has operated efficiently and has resulted in the students handling many things which were formerly the responsibility of faculty committees. By far the most important development during the year was the creation of a Student Union. The students wanted and desperately needed a place of their own which could serve as the center of social life. Their persistence, careful planning, wisdom and good taste, together with the generous backing of the

Alumni Association and the Business Department of the University, effected a miraculous conversion of the barn behind Fanning House into an attractive Student Union Building. The enthusiasm which accompanied the process of making this conversion, and the equally enthusiastic response to the completed project, amply justified the work and the expense which were involved.

DEPARTMENTAL CHANGES

With the reorganization of the Department of Fine Arts a revised program of concentration has been inaugurated. The most radical change is to be found in an arrangement allowing a student to pursue most of his courses in fine arts at the School of the Worcester Art Museum. From one point of view, the new program is merely an improvement upon an existing system. Formerly, a graduate of the Museum School could transfer to Clark with the standing of a junior, and in two years receive the Bachelor's degree. This arrangement had two fundamental weaknesses which, it is felt, are corrected by the new program. In the first place, the sequence of the student's general studies was broken by his three years of art school, and, secondly, when he returned to general studies here, his specialized skill suffered from lack of practice. It was clearly a wasteful reversal of the normal sequence from general to specialized study. Under the new joint program with the School of the Worcester Art Museum, a student who desires training in applied art in connection with a college education is admitted to Clark in the normal manner after graduation from high school. He embarks upon the major program just as he might upon any other major. In his first and second years he has four courses at Clark and one at the Museum; in the third year three courses at Clark and two at the Museum; and in the fourth, two at Clark and three at the Museum. He will graduate with substantially the same general preparation as any other student—having fulfilled the regular college distribution requirements; and he will have a foundation in his specialty which will place him at the level of the end of the second year of art school. He can then elect a fifth year of study at the Museum School if he so desires.

In the Department of Mathematics, courses are now offered at the advanced undergraduate and graduate level for the first time in many years. The graduate courses, at present, do not lead to an advanced degree in mathematics but are of great value to graduate students who are pursuing degrees in the sciences.

For some years prior to 1949, the work in psychology and education was organized under a single department. In the fall of 1949 a new organization was completed which created a Department of Education and a Department of Psychology. Professor Vernon Jones was named chairman of the former and Professor Heinz Werner of the latter.

Faculty

Professor Henry M. Bosshard died on November 22 after an illness of three months. He had been a member of the Clark faculty since 1927 and at the time of his death was Professor of German and chairman of the Department of German. He had a profound appreciation of and insight into great literature, and had developed the art of teaching to a point where he was extraordinarily successful in leading students to a rich experience through the reading of great works. He had a profound faith in young men and women, and gave liberally of his time and energy in helping students to develop their potentialities. His characteristic sense of devotion led him to accept positions of leadership on many important university and faculty committees. At the same time, he was able to continue with scholarly pursuits and at the time of his death he had just completed a manuscript which is designed for a college course in German.

Dr. Samuel J. Brandenburg retired on August 31 after serving Clark for twenty-seven years as Professor of Economics and Sociology and, for most of that period, as chairman of the department.

The following resignations were accepted during the year: Paul F. Marble, Associate Professor of English; Thomas Q. Gilson, Assistant Professor of Psychology; David J. Stanonis, Assistant Professor of Chemistry; Mrs. Carolyn L. Bourdon, Assistant Director of Physical Education in the Women's College.

The following appointments to the faculty have been made: Karl J. Arndt, Professor of German and chairman of the Department of German; Edward C. Higbee, Associate Professor of Geography; F. Eugene Melder, Associate Professor of Economics; Henry C. Borger, Jr., Assistant Professor of Education; Joseph A. Nordstrom, Assistant Professor of Business Administration; Miss Jo Ann Daigler, Assistant Director of Physical Education in the Women's College; Edward H. Hastings, Instructor in English.

During the year the following promotions were made: Richard J. Lougee from Associate Professor to Professor of Physiography; Robert F. Campbell from Assistant Professor to Associate Professor of American History; Howard K. Moore from Instructor to Assistant Professor of English.

For the Record

At the meeting of the Alumni Association on June 3, Dr. Eugene L. Richmond, A.B. '24, of Worcester was elected to a four-year term as alumni representative on the Board of Trustees, replacing Mr. Archibald M. Hillman whose term expired.

On Sunday morning, June 4, the Baccalaureate Service was held in Atwood Hall, with Liston Pope, Dean of the Yale Divinity School, delivering the sermon.

For the first time in the history of the University, our Commencement exercises were held away from the campus. This departure from tradition was necessitated by the unusually large number of candidates for degrees. The exercises were held on the afternoon of June 4 in the Worcester Municipal Auditorium with Alvin Christian Eurich, President of the State University of New York, delivering the Commencement address. The following degrees were conferred: Bachelor of Arts, 170; Bachelor of Business Administration, 5048; Master of Arts in Education, 17; Master of Arts, 30; Doctor of Philosophy, 14. The following honorary degrees were conferred: Loring Holmes Dodd, Doctor of Humane Letters; President Eurich, Doctor of Laws; Charles Bungay Fawcett, Doctor of Science.

Howard B. Jefferson, *President*

November, 1950

CLARK UNIVERSITY BULLETIN
WORCESTER MASSACHUSETTS

Summer School Program

Clark University

I. For Teachers and Other Advanced Students

June 25 to August 3

1951

II. For Freshmen, Other Undergraduates, and Graduate Students—Twelve Week Program

June 25 to September 14

The BULLETIN is published seven times a year, January, February, March, April, May, October, and November.

Entered as second-class matter December 29, 1920 at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

CLARK UNIVERSITY BULLETIN
No. 199 March, 1951

Part I

A SPECIALIZED SIX WEEK SUMMER SCHOOL PRIMARILY FOR TEACHERS

With Work in Education, Geography, History,
English, and Economics
Integrated Around the Core Theme
of
Problems of Citizenship Today
Together with
A Number of Independent Courses Listed in Part II

Part II

A TWELVE WEEK SUMMER SCHOOL FOR ALL UNDERGRADUATES, INCLUDING ENTERING FRESHMEN, AND FOR GRADUATE STUDENTS

With Work in Many of the Courses in Part I
Available to Upperclassmen
And with Additional Courses
In Biology, Business Administration, Chemistry,
Economics, English, French, German,
History, Mathematics, Psychology,
and Sociology

Available throughout the Twelve Week Term
To All Qualified Undergraduates

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

Howard B. Jefferson, President

Homer P. Little, Dean of the College, and
Director of the Summer School

SUMMER SCHOOL STAFF FOR PART I

Education

Vernon Jones, Ph.D., Professor of Educational Psychology, Chairman of the Department of Education.

Victor B. Johnson, Ed.D., Assistant Professor of Education, Associate Dean of Men.

David Lane, M.A., Assistant Professor of Education, Associate Director of V. A. Guidance Center.

Geography

Samuel Van Valkenburg, Ph.D., Professor of Geography, Director of the Graduate School of Geography.

Earl B. Shaw, Ph.D., Professor of Geography, Worcester State Teachers College.

Guy H. Burnham, M.A., Cartographer.

History

Dwight E. Lee, Ph.D., Professor of History, Chairman of the Department of History and International Relations.

H. Donaldson Jordan, Ph.D., Professor of History.

English

Karl O. E. Anderson, Ph.D., Professor of English, Chairman of the Department of English.

Economics

F. Eugene Melder, Ph.D., Associate Professor of Economics and Sociology.

SUMMER SCHOOL STAFF FOR PART II

[1]Karl O. E. Anderson, Ph.D. See Faculty, Part I.

[1]Karl J. Arndt, Ph.D., Professor of German, Chairman of the Department of German.

[1]Charles T. Bumer, Ph.D., Professor of Mathematics, Chairman of the Department of Mathematics.

[s]Guy H. Burnham, M.A., Cartographer. See Faculty, Part I.

[2]William H. Carter, Ph.D., Instructor of English.

[2]James S. Edwards, M.A., Asst. Professor of German.

[s]Eugene S. Gollin, M.A., Visiting Lecturer.

[1]Eric J. Hanson, M.A., Lecturer in Political Economy, University of Alberta.

[2]George E. Hargest, M.B.A., Assoc. Profesor of Economics (Bus. Ad.)

[2]Sherman S. Hayden, Ph.D., Assoc. Professor of History and International Relations.

[1]Victor B. Johnson, Ed.D. See Faculty, Part I.

[1]Vernon Jones, Ph.D. See Faculty, Part I.

[1]H. Donaldson Jordan, Ph.D., Professor of English History.

[2]Frederick W. Killian, LL.B., Assoc. Professor of Sociology and Economics.

[1]David Lane, M.A. See Faculty, Part I.

[1]Dwight E. Lee, Ph.D. See Faculty, Part I.

[1]Arthur E. Martell, Ph.D., Assoc. Professor of Chemistry.

[2]Richard B. Martin, Ph.D., Asst. Professor of Chemistry.

[1]F. Eugene Melder, Ph.D. See Faculty, Part I.

[1]Howard K. Moore, Ph.D., Asst. Professor of English.

[1]Theodore Nicol, Ph.D., Assoc. Professor of Romance Languages.

[1]Rudolph F. Nunnemacher, Ph.D., Assoc. Professor of Biology.

[2]David Potter, Ph.D., Professor of Biology, Chairman of the Department of Biology.

[2]J. Richard Reid, Ph.D., Assoc. Professor of Romance Languages, Chairman of the Department of Romance Languages.

[1]Earl B. Shaw, Ph.D. See Faculty, Part I.

[2]John S. Stubbe, Ph.D., Asst. Professor of Mathematics.

[1]Samuel Van Valkenburg, Ph.D. See Faculty, Part I.

[2]Walter Zukowski, M.A., Teaching Fellow.

---

[1] Teaches first six weeks only.

[2] Teaches second six weeks only.

[s] Teaches twelve weeks.

PART I

THE SIX WEEK TERM PRIMARILY FOR TEACHERS

The Plan

In the summer of 1951 Clark University is again offering a specialized summer session program for secondary school teachers and supervisors. It is built primarily around the areas of the Social Studies, English, and Education. The courses have been selected and prepared with special consideration for the functional needs of teachers and other graduate students. One of these needs, for example, around which many of the courses are organized is that of the development of youth in citizenship, broadly defined. An allied need is for the guidance and leadership of youth in their attempts to understand current problems in the national and international scene. Through regularly organized courses and weekly panel discussions the staff will work intensively and cooperatively with teachers and prospective teachers in attacking these problems of youth.

INTEGRATION OF EDUCATION AND SUBJECT-MATTER FIELDS

Leading professors in the University in the areas of Economics, English, Geography, and History are cooperating with the Education Department in an effort to make the full resources of the University readily available to teachers in extending their backgrounds in these subject-matter areas and in planning their work in light of the changing conditions affecting youth.

The underlying purpose will be to meet the needs of teachers in their actual class-room situations. This will be achieved by providing opportunities for teachers to extend their knowledge in one or more subject-matter fields, by encouraging detailed course and curriculum planning in Education courses, and by the informal interchange of ideas in student-faculty contacts on trips, in conferences, and in weekly panel discussions by the faculty.

SMALL, INTIMATE CLASSES AND WORK GROUPS

It is the intention of the administration and faculty of the Summer School to keep the number of students in class and work groups sufficiently small to permit a broad interchange of ideas and experiences, a friendly and intimate relationship among the students, and frequent opportunities for student-faculty contact and consultation.

DISCUSSIONS, OBSERVATIONS, READINGS

The presence of such a large percentage of subject-matter specialists in our faculty team should not only add much to the richness of the course offerings but should also serve to make readily available to teachers, through informal discussion and conference, background materials and reading references which would otherwise require more arduous study than the practicing teacher normally has time for on the job. The weekly panel discussions by the faculty and selected teachers from the field will highlight the resources function of the faculty and student-body as a whole.

It is the intention of the Summer School to emphasize critical thinking, discussion, and practical planning on the part of teachers. Opportunities will be provided for teachers to have work conferences and discussions with each other and with members of the staff with a view to translating their learnings and experience into concrete plans for improved instruction in their schools.

THE LOCATION OF THE SUMMER SCHOOL IN RELATION TO TRIPS AND OFF-CAMPUS STUDY

Clark University is situated at almost the exact center of Massachusetts. Opportunities will be provided for week-end visits to the following places which are within easy driving distance of the University: Plymouth, Concord, Lexington, Boston and the seashore, the reconstructed Sturbridge Village, and other points of geographic, historic, and literary significance. Many of these points of interest are shown pictorially on the map on page —. Those wishing to supplement the trips associated with the Summer School may readily arrange profitable week-end outings of their own planning.

Worcester and its immediate environs provide excellent demonstration and field-work facilities in the areas of economic, recreational, cultural, religious, and civic life.

A visit to the United Nations will be arranged if a sufficent number of students desire it.

PALMER FELLOWSHIPS

To encourage teachers and principals who are doing notable work in character and citizenship education to share their experiences with others and to extend their own study, The Palmer Foundation has made available to the Department of Education a number of Fellowships ranging up to $150 to help defray tuition, travel, and living expenses.

All who are granted fellowships will be expected to elect two courses, one of which should be either Education 210a or 216a, preferably the latter, and to assist in the course by giving detailed reports upon programs with which they are most familiar.

Teachers or principals who wish to apply for these Fellowships should submit with their application a description of the citizenship program in their schools. These should be submitted to the Chairman of the Department of Education.

Courses

Courses whose number begins with 2 are open to teachers and other graduate students, and to advanced undergraduates. Courses beginning with 1 may be elected, but teachers desiring to take such courses should consult with the Chairman of the Department of Education before registering; other students should consult with the instructor in the course.

EDUCATION

Educ. ST 210a. *Principles and Problems in Character and Citizenship Development.*

A study of the main problems of learning and teaching in the area of personal values and citizenship development. Among the topics to be considered are: human motivations; the impact of the culture in determining personal and social attitudes and conduct; the influence of such communication media as newspapers, books, motion pictures, radio, etc.; the role of the teacher and the parent in individual guidance; the problems of maladjustment, misconduct and delinquency; some principles in educational planning. Provision will be made for teachers in the course to submit individual problems for study and discussion. Some attention will be given to student projects involving the development of local programs and teacher training for participation in such programs.

Teachers who are responsible for the development of citizenship programs or for teacher training for such programs and who wish to participate in the course for the entire six weeks period, or in special cases for a shorter period, should communicate with the Instructor in advance. See Palmer Foundation Fellowships, open to a limited number of such students, p. 7 of this Bulletin.

Daily, except Saturday, at 10:10. MR. JONES

Educ. ST 216a. *Workshop in Citizenship Education.*

A workshop for advanced students who wish to devise or improve plans and procedures for citizenship education in their schools. Provision will be made for the students to examine descriptions of a wide variety of character and citizenship programs which the instructor has collected from schools over the country in the last year. Opportunities for individual and committee work will be provided. Trips will be arranged for the study of the relation of the school program to community activities and resources.

Fellowships under the Palmer Foundation are available to a limited number of teachers who are leaders in developing citizenship programs in their communities.

Daily, except Saturday, at 1:30. MR. JONES
AND PALMER FELLOWS

Educ. ST 217a. *Counseling Techniques in Secondary School.*

A study of some of the major techniques of counseling in the guidance program in schools. Special attention will be given to the interview, case study, the interpretation of tests and other evaluative devices, the use of school records, and the case conference. The course is designed to assist teachers in performing their functions in the guidance programs in junior and senior high schools. Case records will be studied and discussed. Special problems for study and discussion from members of the class will be welcomed.

Daily, except Saturday, at 11:20. MR. LANE

Educ. ST 221a. *Secondary School Administration.*

The organization and administration of schools. Designed for teachers and administrators, the course will deal particularly with problems of internal organization and democratic administration of schools, with particular stress on situations involving cooperative planning on the part of teachers, administrators, and the community. Attention will also be given to student participation in planning and administering school activities. Special problems from members of the class will be welcomed.

Daily, except Saturday, at 9:00. MR. JOHNSON

Educ. ST 231a. *The Secondary School Co-Curricular Program.*

A study of principles and practices in the development of the co-curricular activities of high schools. Student government, publications, clubs, athletics, etc., will be viewed from the standpoint of their contributions to meeting the needs of students in democracy's schools. Special studies will be made of problems encountered by members of the class in their own schools.

Daily, except Saturday, at 7:50. MR. JOHNSON

GEOGRAPHY

Geog. ST 27a. *Human Geography for Teachers.*

Emphasis will be placed both on the content and material of Human Geography and on the methods of presentation at various grade levels. In addition, there will be discussions on the philosophy of Human Geography. The course is designed primarily for teachers of geography, but a limited number of other students may be accepted upon the approval of the instructor. It will aim to provide enrichment in geographical information, and philosophical aspects of the field, giving due consideration to approaches, curriculum, and methods.

Daily, except Saturday, at 9:00. Mr. Shaw

Geog. ST 201a. *Political Geography.*

A discussion of the elements of Political Geography illustrated by numerous world wide examples. Emphasis will be put on present problem areas with an evaluation of the reasons for political complications as seen from the American point of view. This course should be of special value to teachers in geography as well as in history.

Daily, except Saturday, at 7:50.

Mr. Van Valkenburg

Geog. ST 283a. *Latin America.*

The geographic and some economic and historical problems of each country will be treated. The regional approach will be emphasized, providing an analysis of causes and consequences responsible for place to place differences in population and man-land relations. Major stress will be laid upon those regions of Latin America which have shown most rapid growth in the first half of the present century.

Daily, except Saturday, at 11:20 Mr. Shaw

Geog. ST 285a. *Geography of Europe.*

A geographical evaluation of the nations of Europe with special reference to the present crisis. The major problems of the individual countries as far as they are geographic will be discussed with emphasis on the economic development since the last war. Present plans of cooperation between them as well as the break between eastern and western Europe will be treated, with the needs of teachers primarily in mind.

Daily, except Saturday, at 10:10.

Mr. Van Valkenburg

Geog. ST 191. *Cartography.*

A discussion of various graphic methods and their application to geographic data. Since emphasis will be placed upon the mastery of cartographic tools and instruments, this course should prove particularly helpful to those planning to enter government service or to do illustrative work.

Daily, except Saturday, at 1:30. Mr. Burnham

HISTORY

History ST 201a. *New Viewpoints in History.*

An examination of recent trends in the philosophy and approach to history. Specific topics which have been reinterpreted in recent years will be studied, with special attention being given to those which are of interest to teachers of social studies in high schools. The subject matter will be limited primarily to the area of western civilization.

Daily, except Saturday, at 11:20. Mr. Jordan and Mr. Lee

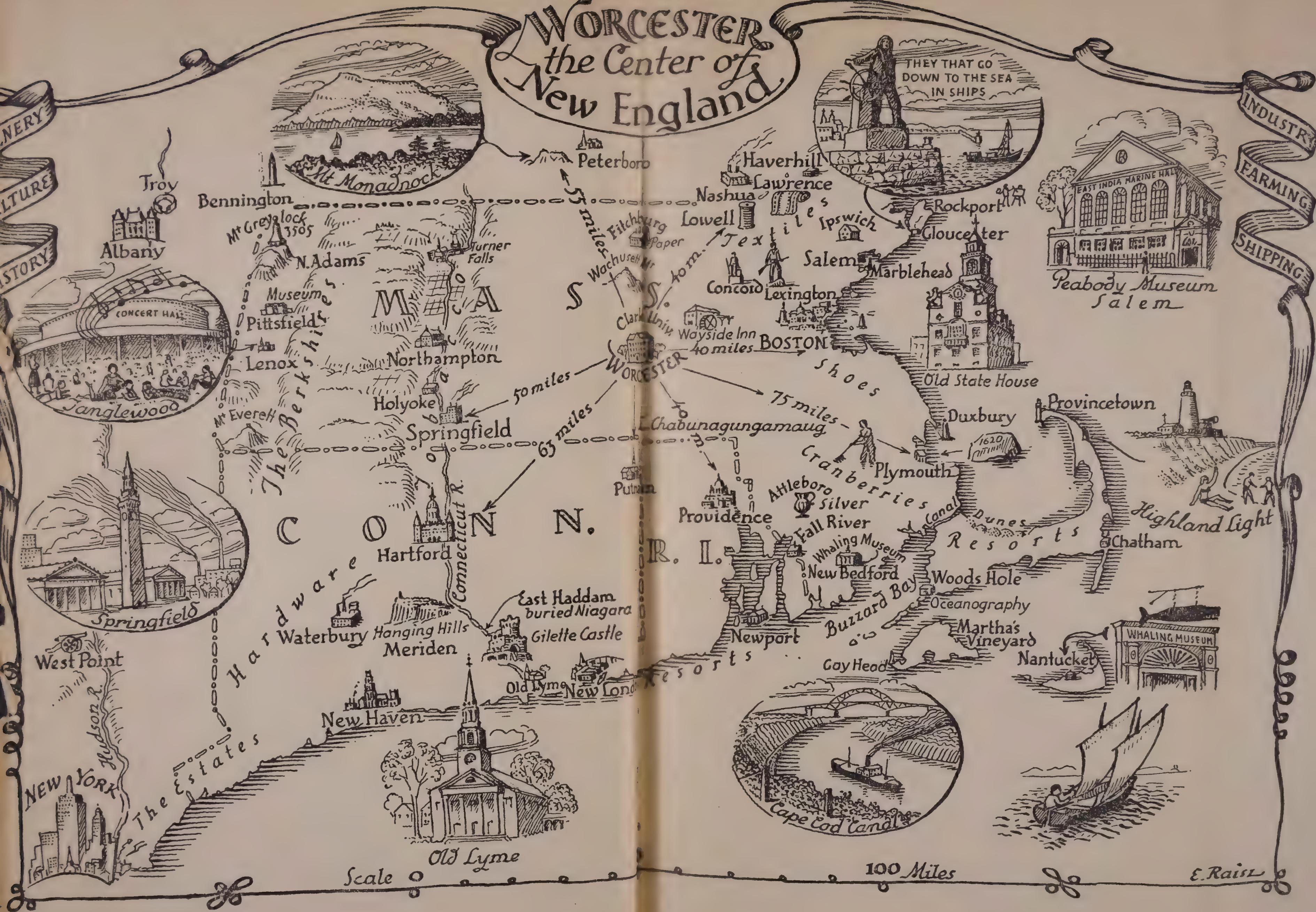
History ST 204a. *Conflicting Ideologies of Our Time.*

An analysis of the origins and development of the most important trends in contemporary political thought. Particular attention will be paid to the challenge of communism and other forms of totalitarianism to the liberal and democratic way of life.

Daily, except Saturday, at 9:00. Mr. Jordan

History ST 213a. *Europe and the United States since 1918.*

A general survey of the similar and contrasting political developments in Europe and the United States in the contemporary period, with special reference to the interrelations between them during and since the Second World War. In addition to class lectures, discussions and


WORCESTER the Center of New England
…NERY
…LTURE
…STORY
INDUSTRY
FARMING
SHIPPING
Mt Monadnock
Peterboro
THEY THAT GO DOWN TO THE SEA IN SHIPS
EAST INDIA MARINE HALL
Peabody Museum Salem
Troy
Albany
Bennington
Mt Greylock 3505
N. Adams
Turner Falls
Museum
Pittsfield
Lenox
CONCERT HALL
Tanglewood
Mt Everett
The Berkshires
Northampton
Holyoke
Springfield
Connecticut R.
M A S S.
55 miles
Fitchburg Paper
Wachusett Mt
40 m.
Textiles
Haverhill
Nashua
Lawrence
Lowell
Ipswich
Rockport
Gloucester
Salem
Marblehead
Concord
Lexington
Clark Univ.
Wayside Inn
40 miles
BOSTON
Old State House
Shoes
WORCESTER
50 miles
63 miles
75 miles
Chabunagungamaug
Duxbury
1620
Plymouth
Provincetown
Cranberries
Putnam
Providence
Attleboro Silver
Fall River
Whaling Museum
New Bedford
Canal
Dunes
Resorts
Highland Light
Chatham
Woods Hole
Oceanography
Buzzard Bay
Martha's Vineyard
Nantucket
WHALING MUSEUM
Gay Head
Newport
Resorts
R. I.
C O N N.
Hartford
Hardware
Waterbury
Hanging Hills
Meriden
East Haddam buried Niagara
Gilette Castle
Old Lyme
New London
New Haven
Springfield
West Point
Hudson R.
NEW YORK
The Estates
Old Lyme
Cape Cod Canal
Scale 0
100 Miles
E. Raisz

readings, individual reports by students on topics of special interest to them will be required.

Daily, except Saturday, at 10:10. MR. LEE

ECONOMICS

Economics ST 211a. *Current Economic Problems.*

A survey of some of the basic economic problems of American democratic society in the world situation today. Special attention will be given to the problems of mobilizing the nation's economic resources for national security, the problems of inflation and its control, of settling industrial disputes, and of providing for domestic economic welfare within the framework of democratic institutions. Other economic problems will be considered as the interests of the members of the class suggest.

Daily, except Saturday, at 10:10. MR. MELDER

ENGLISH

English ST 118a. *Literature and the Nature of Man.*

In this course seven great literary works will be analyzed in some detail for their contributions to teachers and students interested in literature as a reflection of man in the different cultural matrices of the past. These works will be studied with a view to developing an area of knowledge and experience which educated men and women have in common with the eminent creative artists of our western civilization, and with a view to understanding basic human problems and attitudes that are both constructive and creative. By using each work as a key to the attitude toward life of that particular period, the course will endeavor to trace the development of western thought on certain fundamental issues and values from their origins to the present time.

Daily, except Saturday, at 12:30. MR. ANDERSON

English ST 190a. *Great American Novels.*

This course will consider eight great American novels: Hawthorne's *Scarlet Letter,* Melville's *Moby Dick,* Twain's *Huckleberry Finn,* James's *American,* Norris's *McTeague,* Dreiser's *American Tragedy,* Lewis's *Babbitt,* and Hemingway's *The Sun Also Rises.* Besides showing the development of the American novel as an art form, the course will study the development of American thought from the romanticism of the early and middle nineteenth century and the revolt against it in Hawthorne and Melville through the naturalism and determinism of the late nineteenth and early twentieth centuries, thus focusing attention on the intellectual and ethical issues facing America today. Efforts will be made to adjust the readings in the course to the needs of individual students, especially teachers, and substitutions in the above list may be made with the Instructor's approval.

Daily, except Saturday, at 11:20. MR. ANDERSON

FOR INFORMATION CONCERNING CREDITS, DEGREES, TUITION AND LIVING COSTS, SEE P. 26.

PART II

THE TWELVE WEEK SUMMER TERM FOR FRESHMEN AND ALL OTHER UNDERGRADUATES

JUNE 25 to SEPTEMBER 14

Preliminary Statement

The international situation again encourages acceleration.

Freshmen who enter in June may now complete two years of college by September 1952 provided they carry a program of two courses for twelve weeks through the summers of both 1951 and 1952 and carry a six-course program during the college year 1951-52. Courses available for Freshmen will be Biology, Business Administration, Chemistry, English, French, German, Mathematics, and Psychology.

Sophomores, Juniors, and Seniors will find more advanced courses available in the same fields and also in Cartography, Economics, History, and Sociology.

COURSES

Courses listed by title only are those described in Part I. They are open to qualified college students who have reached Junior or Senior standing.

Course numbers preceded by an F indicate that they are open to Freshmen; those whose number begins with 1 are open to qualified undergraduates other than Freshmen; those whose number begins with 2 are open to qualified Juniors and Seniors.

If a course number is followed by *a* or *b*, it is a six-week course only, *a* indicating a course offered during the first six weeks and *b* a course offered during the second six weeks. If the number is not followed by a letter, the course is a twelve-week unit although, if not specifically designated as *indivisible*, one semester may be taken for credit without electing the other, subject to the instructor's approval.

BIOLOGY

F Biol. ST 11. *General Biology.* An introduction to the fundamental principles and problems of Biology. The first six weeks will deal with zoological aspects, while the second six weeks will treat the botanical field (with Mr. Potter). Divisible with the approval of the instructor.

Daily, except Saturday, at 7:50; lab. T. Th. at 1:30.
MR. NUNNEMACHER AND MR. POTTER

Biol. ST 220a *Histology.* A microscopic study of the structure of animal tissues.

Daily, except Saturday, at 10:10; lab. M. W. F. at 1:30.
MR. NUNNEMACHER

Note: Either Histology 220 or Neuroanatomy 224, but not both, will be given, depending upon enrollment.

Biol. ST 224a. *Neuroanatomy.* An introduction to the structure and relationship of parts within the Central Nervous System. Krieg's "Functional Neuroanatomy" will be used as textbook.

Daily, except Saturday, at 10:10. MR. NUNNEMACHER

Biol. ST 18b. *Genetics.* An introduction to the mechanisms and laws governing the phenomena of heredity and variation among plants and animals.

Daily, except Saturday, at 10:10. MR. POTTER

BUSINESS ADMINISTRATION

(See Also Economics and Psychology)

B.A. ST 16. *Business Statistics.* This course is designed to give students knowledge and experience in the collection and presentation of statistical data and in the handling of the basic tools of statistical analysis; and their application to sampling and tests of significance, to index numbers, time series, and correlation analysis in so far as these techniques are useful in the analysis of problems in economics and business. Indivisible.

Required for the degree of Bachelor of Business Administration.

Daily, except Saturday, at 7:50.

MR. MELDER AND MR. HARGEST

B.A. ST 17a. *Public Speaking.* See English 12a which meets the requirement of B.A. 17a in the summer.

B.A. ST 18. *Business Organization and Finance.* A unified year course in the financial structure of modern industry. Emphasis is placed on the nature of the business corporation, its financial practices, and the problems of internal financial control. Indivisible.

Daily, except Saturday, at 12:30.

MR. HANSON AND MR. ZUKOWSKI

B.A. ST 181b. *Industrial Management.* A study of the techniques of executive control and the measures of managerial efficiency pertaining particularly to production control, standardization of operations, purchasing, inventories, selling and budgeting.

Daily, except Saturday, at 11:20. MR. HARGEST

CHEMISTRY

F Chem. ST 11. *General Chemistry.* Systematic study of the elements and their principal compounds and the fundamental laws and theories of chemistry. Five lectures and two afternoons of laboratory work per week.

Divisible only by consent of instructor.

Daily, except Saturday, at 7:50; lab. T. Th. at 2:00.

MR. MARTELL AND MR. MARTIN

Chem. ST 15. *Organic Chemistry.* Lectures on the principles of organic chemistry and a laboratory study of the preparation and properties of important organic compounds. Five lectures and two afternoons of laboratory per week.

Daily, except Saturday, at 9:00; lab. M. W. at 2:00.

MR. MARTELL AND MR. MARTIN

ECONOMICS

(See also Business Administration and Sociology)

Econ. ST 211a. *Current Economic Problems.* See Part I.

Econ. ST 13a. *Money and Banking.* The principles of money and banking with special reference to their functions in the present economy.

Daily, except Saturday, at 10:10. MR. HANSON

ENGLISH

F Eng. ST 11. *Composition and Literature.* The purpose of English 11 is to develop clarity and accuracy in reading and writing. The first semester reviews the principles of rhetoric and offers the student practice in analyzing difficult expository passages. The second semester aims to help the student develop sound critical principles in evaluating fiction and poetry. A required freshman course.

Daily, except Saturday, at 9:00.

MR. MOORE AND MR. CARTER

Eng. ST 12a. *Public Speaking.* A course in the fundamentals of public speaking including the more common speech situations such as speech of introduction, address of welcome, expository and impromptu speeches; problems in human relations; voice tests; vocabulary drill.

Required for the degree of Bachelor of Business Administration.

Daily, except Saturday, at 11:20. MR. MOORE

Eng. ST 17b. *Great English Writers.* This course is intended primarily for non-English majors who wish to take an English course beyond English 11. Instead of tracing the historical development of English literature as the regular survey does, this course considers in detail six of the most prominent English writers. This summer the authors to be studied are Chaucer, Shakespeare, Donne, Milton, Swift, and Fielding.

Not open to students who have taken English 15A or B.

Daily, except Saturday, at 11:20. MR. CARTER

Note: For additional courses in English see Part I.

FRENCH

F Fr. ST 12. *Intermediate.* Review of grammar exercises in composition and pronunciation, intensive and extensive reading in a variety of modern texts.

Prerequisites: French 11 or the equivalent, to be determined by a placement test. Indivisible.

Daily, except Saturday, at 10:10.

MR. NICOL AND MR. REID

F Fr. ST 14. *Readings in French Literature.* The aim of French 14 is two-fold: the attainment of facile reading ability and the appreciation of at least ten works selected from various periods and chosen for their literary excellence and universal appeal.

Prerequisite: French 12 or the equivalent, to be determined by a placement test.

Daily, except Saturday, at 9:00.

MR. NICOL AND MR REID

GEOGRAPHY

Geog. ST 191. *Cartography.* A discussion of various graphic methods and their application to geographic data. Since emphasis will be placed upon the mastery of cartographic tools and instruments, this course should prove particularly helpful to those planning to enter government service or doing illustrative work. Divisible.

Daily, except Saturday, at 1:30.

Note: For geography courses offered during the first six weeks see Part I.

GERMAN

F Ger. ST. 12. *Intermediate German* (Second Year). Review of essentials of German grammar, reading of modern German prose, exercises in conversation and composition. The course takes into realistic account the present situation in Germany and our country's extensive interests there. Prerequisite: German 11, two years of high school German or equivalent. Indivisible.

Daily, except Saturday, at 7:50.

MR. ARNDT AND MR. EDWARDS

F Ger. ST 13. *Third Year German.* A rapid and intensive review of German grammar followed by the study of contemporary German prose. Practical use of the language stressed. The course takes into realistic account the present situation in Germany and our country's extensive interests there. This course completes the language requirements in German. Prerequisite: Two years of college German or equivalent.

Daily, except Saturday, at 9:00.

MR. ARNDT AND MR. EDWARDS

HISTORY

Hist. ST 24b. *International Relations.* A survey of the world politics of the past twenty years with special attention to the origin, practicality, and probable consequences of current national policies.

Daily, except Saturday, at 9:00. MR. HAYDEN

Hist. ST 274b. *The Modern Far East.* This course is primarily a survey of the international relations of China and Japan since about 1890, with emphasis on the development of the contemporary situation in Eastern Asia.

Daily, except Saturday, at 10:10. MR. HAYDEN

Note: For courses offered during the first six weeks see Part I.

MATHEMATICS

F Math. ST 11. *Freshman Mathematics.* Course 11 has for prerequisites one course in algebra and one course in plane geometry taken in the secondary schools, although at least three courses in secondary school mathematics are advisable. Careful attention is given to fundamental concepts and to the development of useful techniques. Topics in algebra, trigonometry and analytic geometry are introduced. Indivisible.

Daily, except Saturday, at 7:50.

MR. BUMER AND MR. STUBBE

Math. ST 15a. *Theory of Equations.* Algebraic equations and their roots are studied in the course in theory of equations. Polynomial equations are treated by means of exact and approximate methods and systems of linear equations are studied.

Daily, except Saturday, at 10:10. MR. BUMER

Math. ST 20b. *Inequalities.* A systematic treatment of the simple inequalities which constantly appear in both pure and applied mathematics. Emphasis is put on arithmetic and geometric means, Hölder's inequality, Minkowski's inequality and their analogues and extensions.

Daily, except Saturday, at 10:10. Mr. Stubbe

PSYCHOLOGY

F Psych. ST 11. *General Psychology.* An introduction to the principles of human behavior. Lectures and class discussion.

Daily, except Saturday, at 11:20. Mr. Gollin

Psych. ST 190b. *Applied and Industrial Psychology.* The application of psychological techniques to the problems of business and industry.

Prerequisite: One semester of general psychology.

Daily, execept Saturday, at 10:10. Mr. Gollin

SOCIOLOGY

Soc. ST 12b. *Introduction to Cultural Anthropology.* The evolution and development of man and his culture: Basic concepts; the races of man and their distribution; process of adaptation and adjustment through culture; primitive, historic and modern culture complexes compared; divergence, transmission, and function of culture; origin and growth of civilizations; contemporary preliterate peoples; relationship of anthropology to the other social sciences.

Daily, except Saturday, at 11:20. Mr. Killian

Soc. ST 16b. *Social Problems and Their Analysis.* A study of current social problems in the setting of social and cultural change; trends affecting the quantity and quality of problems: mobility, urbanization, secularization, individualization, population composition; a study of typical and selected problems in this setting, such as dependency, personal maladjustment, group disfunction, institutional breakdown, minority groups and deviant behavior.

Daily, except Saturdays, at 10:10. MR. KILLIAN

DEGREES AND CREDITS

Work in the summer session of Part I may count toward the degrees of Master of Arts, Master of Arts in Education, and in some cases toward the Doctor of Philosophy, when approved in advance by the student's major department.

Suitable courses will also count toward the Bachelor of Arts degree for advanced undergraduate students.

All courses under Part II not listed under Part I may count toward the Bachelor of Arts degree. Many give credit toward the degree of Bachelor of Business Administration. Graduate students interested in credit for courses under Part II should consult their major department.

Each subject successfully pursued for six weeks yields one-half course (three semester-hours) credit. Two subjects constitute a normal program.

TUITION AND LIVING COSTS

The tuition for the normal program of two courses is $80.00 for each six-week session; for one course the charge is $40.00. A student carrying a full program may audit a third course without additional cost. In addition to tuition, there is a matriculation fee of $5.00 for students entering the University for the first time. Tuition is payable at the Bursar's office immediately following registration.

Dormitory facilities are somewhat limited, and therefore reservations should be made promptly by those desiring to live in the dormitories. Rooms in private homes near the University are also available. Rooms in the dormitories will cost $5.00 per week. A deposit of $10.00 is required to hold a room.

Breakfast and lunch may be secured at the Student Union.

RESEARCH ON THESIS

Graduate students formally registered in the summer term may, with the approval of their major department, enroll in thesis courses under the direction of regular members of the staff other than those listed in the present bulletin.

VETERANS

Veterans attending the 1951 Summer School should either present their supplemental Certificates of Eligibility to the General Office not later than Friday of the first full week of the term or pay their tuition. All tuition paid will be refunded shortly after the Certificate of Eligibility is at hand at the General Office.

To the Director of the Clark University Summer School:

I wish to enroll as a student in the Summer School for 1951.

Name .... Date ....

Present Address ....

Permanent Address ....

....

Occupation .... Academic Degrees ....

Are you a candidate for an Academic Degree? ....

If so where? ....

If Veteran will you be enrolled under the G. I. Bill? ....

Do you wish a room in dormitory? .... If so, please enclose deposit.

Courses you tentatively expect to elect: ....

FOR FURTHER INFORMATION ADDRESS

Dean Homer P. Little, Director of the Summer School

Worcester 3, Massachusetts

For information about the Palmer Fellowships in Education write to

Dr. Vernon Jones

Clark University Bulletin

NUMBER 200 CATALOG MARCH, 1951

WORCESTER, MASSACHUSETTS

CLARK UNIVERSITY

Sixty-first Annual Commencement

JUNE 9, 1951

FIAT
LUX
MDCCCLXXXVII

WORCESTER, MASSACHUSETTS

Order of Exercises

Processional
Processional March — *Martin Shaw*

Invocation — CLARENCE PROUTY SHEDD, B.D., PH.D.
Yale Divinity School
New Haven, Connecticut

Announcements by the President

Commencement Address
THE HONORABLE HENRY CABOT LODGE, JR.
United States Senator from Massachusetts

Conferring of Degrees

Benediction — CLARENCE PROUTY SHEDD

Recessional
Prelude in Ancient Style — *A. Bristol*

The audience will kindly remain standing during the recessional

Candidates for the Degree of Bachelor of Business Administration

- *Theodore Francis Adams
- *Vasgen Babigian
- Robert Edward Bachmann
- Leonard Joseph Beauregard
- Burton Franklin Berg
- James Leonard Blue
- Harvey James Burgoyne
- Alton Lebro Ceccoruli
- Philip Sheu Tung Chin
- Saverino Ciani
- Richard Mark Cohen
- *John Joseph Crowley, Jr.
- Michael Frank Debitetto
- George Degermajian
- Joseph Aloysius Finan, Jr.
- Ernest Haskell Fink
- *Leo Bashara Forzley
- William Dubois Fowler
- Kenneth Paul Gauthier
- Laurence Alan Gravin
- Russell Werner Hohne
- Charles Henry Jacobs
- Robert William Kirby
- Joseph Gerard Litalien
- Sumner Wellington Loomer
- John Francis Marshall
- Julius Pearl Maynard
- Marshall Conrad McGrath
- Peter Andrew Michaelian
- Minas Minasian
- *Robert Angelo Morello
- *Peter Thomas Niarchos
- James Nicola
- Alan Edward O'Neill
- Ernest Girard Paquette
- Paul Norman Peterson
- Robert Paul Plucinski
- Gerald Schuster
- Frederick Neil Sheppard
- Morton Herbert Sigel
- Frank Henry Sleuman, Jr.
- *Charles Francis Smith, Jr.
- Stanley Francis Stickney
- Bernard S. Stolbof
- Joseph Sumner
- David Andrew Svenson
- Allan Avery Thresher
- Edmond Andrew Trudeau
- *Joseph John Tyborowski
- *Paul Edward Ullstrom
- John Francis Woods

* "As of" June 4, 1950

Candidates for the Degree of Bachelor of Business Administration with Honor

Sylvio Paul Demers *with Honors in Business Administration*

Arnold David Mindick *with Honors in Business Administration*

Virginia Nicholas *with Honor in General Course*

Dudley Benson Sherry *with Honor in General Course and with Honors in Business Administration*
*Degree "as of" June 4, 1950

Candidates for the Degree of Bachelor of Arts

Elaine Frances Adams
Festus Gilbert Amsden
Nicholas Ernest Andreson
Paul Herbert Askling
Clarence Edward Barnes
*Peter Barsoum, Jr.
Dolores Ann Bartuska
Adelbert Fuller Baskin
*Franklin Wellington Baumgartner
Robert Dorr Belden
Theresa Rose Borkowski
Ruth Cabot Bouvé
*Richard Romeo Brodeur
Winthrop Curtis Brown
Edward Nicholas Carey
Raymond Joseph Castriotta
Carlos Manuel de Castro
Eugene Roland Chartier
Marie Jacqueline Choiniere
Lois Ruth Cohen
Christopher Collier
*Ralph Christian Cooper, Jr.
Allan Satterthwaite Davis
*Richard DeForest Davis
Edward John Delehanty
Richard Edward Dwyer
Jean Helen Egan
Rosaline Epstein
Donald Elmer Erdman
George Carl Erickson, Jr.
Robert Henry Ericson
Eleanor Marion Ewing
Jeanne Eloise Farr
Genevieve Agnes Fischer
*Earl Vincent Flagg
Charles Edward Flint
Mary Jane Flynn
Enrico Henry Forchielli
Beverly Jean Fox
*Robert William Fox
Samuel Bernard Garbose
Richard Warren Gibbs
Arthur Goldstein
Edward Charles Goss
Nancy Ann Thayer Grant
Pauline Elizabeth Graves
Aubrey Greenwald, Jr.
Robert Woods Guy
Audrey Ruth Halperin
Paul Church Hemenway
Joseph Allen Hill
John Stephen Holloran, Jr.
David Roland Holm
Paul Wendell Houle
Cecile Gloria Hurvitz
Albert John Iacobucci
Harold Waldemar Jacobson
Betty Ellen Johnson
Sally Davies Johnston
John Oliver Johnstone, Jr.
Margaret Elizabeth Jones
Robert Kalin
William Francis Kane, Jr.
Rena Susan Kant
Stephen Lloyd Kaufman
Louise Marie Kennedy
*Stanley Francis Kiewra
Theresa Christine Kosciusko
Liberty Catherine Koskinas
Herman Harry Kramer
Anthony Vitie Krochalis
Samuel Mayer Laipson
Robert Lawrence LeClaire
William John Lee
Willard Allen Legg
Jean Macintyre Leigher
Henry Vincent Listewnik
Alfred Irving Lonstein
Norman Merrill Lurier
Jean Mary Lynch
June Lorraine Mann
James Martin McNulty

Candidates for the Degree of Bachelor of Arts (Cont.)

Alan Gilman Mellin
Norma Joyce Mongeon
William Dunning Mulligan
Ann Marie Murphy
Leroy Joseph Murray
Wallace Haslett Myers
Betty Louise Nelson
*Roy Stanley Nelson
Thomas Leverett Nelson, Jr.
John Nimmo
Stanislaus John Noniewicz
Margaret Rita O'Grady
*Walter John Pacek
Ernest James Pappas
Daniel Felix Pawlikowski
*Stanley Michael Petka
Charles Foskett Phelps
Florence Josephine Pongowski
Valerie Mary Proodian
Gerald Owen Richards
Renato Mario Rondinella
Robert Lauer Schuman
Claire Lorraine Seay
*Khachatoor Shatikian
Dorothy Louise Simpson
Ian Ballantyne Smith
Judson Wylder Spalding
Robert John Tashjian
Roger Tucker Thurston
Raymond Eugene Tibbetts
Allan Francis Torres
Mary Louise Vandersea
Andrew Thomas Viglucci
Ray Faunce Weston, Jr.
Clayton Andrew Wetmore
Leon Edward Whitney, Jr.
Helga Woodrich
William Mark Wynne
Betty Saunders Youngren
Henry Zuk

Candidates for the Degree of Bachelor of Arts with Honor

William Albert Bailey *with Honor in General Course*

Donald Joseph Bowler *with Honor in General Course*

Joseph John Buchyn *with Honors in Economics and Sociology*

Mary Elizabeth Butler *with Honor in General Course*

John Edward Fallon *with Honors in Geography*

Roland John Frodigh *with Honors in Geography*

Leon Hersch Golumbuk *with Honors in Psychology*

Don Paul Haefner *with Honor in General Course and with Honors in Psychology*

Ruth Marie Hefner *with Honor in General Course and with Honors in Psychology*

Irma Joyce Mayhew *with Honors in Economics and Sociology*

Anna Nichols McGrath *with Honor in General Course*

Tom Leopold Mohr *with Honor in General Course and with Honors in Psychology*

Charles Nicholas Rassias *with Honors in International Relations*

Noel Chase Sears *with Honors in Physics*

Candidates for the Degree of Bachelor of Arts with High Honor

Robert Alan Lancey *with High Honor in General Course*

Joan Mary Shiminski *with High Honor in General Course*

*Philip Stanley Chen, Jr. *with High Honor in General Course*

Candidate for the Degree of Bachelor of Arts with Highest Honor

William Andrew McLean *with Highest Honor in General Course*

*Degree "as of" June 4, 1950

Candidates for the Degree of Master of Arts in Education

Walter Joseph Basiul
Gale Winslow Bennett
Clare Therese Cassidy
Paul Joseph Connolly
Rita Elizabeth Finneran
John Francis Hobin
Irja Rachel Hofschire
Emil Luther Johnson
Alden Alfred Larson
Nadine Helen Mangan
Margaret Ann Marlborough
Albert Daniels Morse
Gerald Ritter
Richard Paul Sandberg
Dorothy Tite
Richard Napoleon Wegrzynek
John Philip Whalen
Martin Charles Wilson
Bernard Norman Ziemski

Candidates for the Degree of Master of Arts

Biology

Michael Thomas Lategola
William Warren Sanford
Robert Frank Slechta

Chemistry

Francis Frederick Carini

Economics and Sociology

Saretha Gaskins
Beatrice Loretta Neary
William Davis Shepard

Geography

Naji Mulla Abbas
Mary Leonard Caruso
John Martin Collins, Jr.
Bradley Fisk, Jr.
Andreas Peter Grotewold
Neil Washington Halkyard
Peter Hirschberg
James Patrick Jones
David Hodgkins Kellogg
Dana Anton Little
George Charles MacGillivray
Gloria Manter MacGillivray
Wojciech Monkiewicz
Andrew Smith Moreland
Li-chang Shih
Paul Peter Vouras
Miles Waverly Weaver

History and International Relations

James Joseph Barrett, Jr.
Jean Dominique Fourré
Esther Christine Goddard
Richard Vessot Gorham
Margery Ruth Johnson
Betty May Linsley
John Francis Markham
Samuel Maurice Osgood
Harry George Schalck
Nancy Taylor

Psychology

Dorothy Alice Amidon
~~Howard Thomas Blanc~~
Louis Peter Carini
Peter Elia Comalli, Jr.
Alvin George Goldstein
Nathan Schellenberg Kline
Donald Max Krus
John Everett Lane
Herbert Lipton
Paul Solomon

Candidates for the Degree of Doctor of Philosophy

Chemistry
Arthur John Bruno
Ralph Francis Lumb

Economics and Sociology
Edith Rose Kaufman
Herman Kleine

Geography
Savitri Gauba Burman
Arthur Lowe Burt
Harry Harrison Caldwell
John Lewis Jenness
Wallace Edward McIntyre
Aaron Joseph Wraight

History and International Relations
Albert Norman
Clark William Simmons

International Affairs
Clark Nixon Crain

Psychology
Eugene Simon Gollin
Larry Hemmindinger
Edward Lewis Siegel

Conferring of Honorary Degrees

Fred Albert Mettler	Presented by David Potter
Frederick Charles Bersworth	Presented by Jesse Lunt Bullock
Hugh Llewellyn Keenleyside	Presented by Dwight Erwin Lee
Clarence Prouty Shedd	Presented by Robert Stanley Illingworth
Henry Cabot Lodge, Jr.	Presented by James Ackley Maxwell

Order of Ahepa Prize for Excellence in Greek

Gerald Mansfield Lowney

The Sanford Memorial Scholarship Fund

James Saul Wiener

CLARK UNIVERSITY

COMMENCEMENT EXERCISES
OF THE
1951 SUMMER TERM

SEPTEMBER 14, 4:00 P.M.

Processional: Allegro from Sixteenth Sonata *Handel*

Commencement Address President Howard B. Jefferson

Conferring of Degrees

BACHELOR OF BUSINESS ADMINISTRATION

Gordon Salisbury Brandes
Richard Dean Cochran
James Arthur Healy
Mieczyslaw Marian Makowiecki
Harry Leo McGachie
Robert Howard Pentland
William James Schollard, Jr.
Ralph Adelbert Seaver, Jr.
Joan Marie Spillane

BACHELOR OF ARTS

Thomas Bolton Ahern
*Mabel Bartlett
George Dana DiRado
Victor Ferris George
Harold James Lee
Robert Edward Lund
Dominic Anthony Manduca
Edward Harold Mooradkanian
Subbiah Muthiah
Beverly May Putnam
Geno Francis Salvatelli
John Eric Swanstrom
Peter Alexander Tosi
George Victor Vasil
Francis Donald Welch
Graenem Abba Yoffe

* "as of" June 4, 1950

MASTER OF ARTS

In Economics and Sociology

Kenneth Augustus Anderson, Jr.

In Geography

Orton Carmichael Butler
Thomas Lee Goodman
William Luther Jeyasingham
Sister Mary Clarissima
Paul Vincent Salley

In Psychology

Howard Thomas Blane
Lillian Gottesman
Walter Benno Simon

DOCTOR OF PHILOSOPHY

In Geography

Harold Franklin Creveling
Engbert Jan Coen Kiewiet de Jonge

In History and International Relations

Carey Bonthron Joynt

RECESSIONAL: Trumpet Tune *Purcell*

Organist: MR. H. EARLE JOHNSON

Following the Commencement Exercises President and Mrs. Jefferson will hold a reception at their home for the graduates, their families, faculty, guests of the University, and all students of the summer session.

Received from Heffernan
Press 3-20-51

Clark University Bulletin

CATALOGUE NUMBER

The Catalogue is a record for the current academic year 1950-1951. Such announcements for the year 1951-1952 as can be made at the time of publication are included.

The Bulletin is published seven times a year, in January, February, March, April, May, October, and November

---

Entered as second-class matter, December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

Table of Contents

CALENDAR 7

ALPHABETICAL LISTING FACULTY, ADMINISTRATION 9

BOARD OF TRUSTEES, ADMINISTRATION 11

FACULTY 12

ADMINISTRATIVE BOARDS AND COMMITTEES 23

INFORMATION REQUESTS 28

THE UNIVERSITY

Historical Note 29
Worcester and the University 31
Organization 32
Buildings and Grounds 33
Campus Plan 34
The Library 36
Admission 37
The Academic Year 38
Tuition and Other Expenses 38
Fellowships, Scholarships and Student Aid 43

THE GRADUATE SCHOOL

Admission 51
Scholarships, Fellowships and Student Aid 52
The Degree of Master of Arts 53
The Degree of Doctor of Philosophy 54

THE GRADUATE SCHOOL OF GEOGRAPHY 55
Graduate Work 58
The Field Camp 59
Students' Fees 59
Courses 60

THE GRADUATE DIVISION OF INTERNATIONAL AFFAIRS
Admission 61
Programs 61

THE MEN'S COLLEGE—"CLARK COLLEGE"
Admission to the Freshman Class 62
Admission with Advanced Standing 64
Faculty Advisers 65
Freshman Induction Period 65
Registration 66
Student Programs 66
Requirements for the Degree of Bachelor of Arts 68
Grading and Scholarship 71
Classification of Students 71
Comprehensive Examinations 71
General Honors 72
Departmental Honors 72
Scholarship Society 73
Absences 73
Extra-Curricular Activities and Student Life 74

THE WOMEN'S COLLEGE OF CLARK UNIVERSITY
Advisory Board for the Women's College 76
Athletics 77
Student Activities 78
Induction Period 78
Admission and Scholarships 78

THE DIVISION OF BUSINESS ADMINISTRATION
Administrative Committee 80
The Program 81
Honors Program 82
Admission 82
Requirements for the Degree of Bachelor of Business Administration 83
General University Requirements 84

PROGRAMS AND COURSES OF INSTRUCTION 87
Interdepartmental Majors and Courses 89
Biology 94

Business Administration 100
Chemistry 107
Classics 113
Economics 115
Education 125
English 129
Fine Arts 135
French 178
General Education 92
Geography 140
Geology 147
German 148
Health Education for Undergraduate Women 151
History and International Relations 151
Mathematics 160
Philosophy 163
Physics 165
Psychology 168
Romance Languages 178
Russian 184
Sociology 122
Spanish 181

THE SUMMER TERM 185
Courses 186

THE DEGREE OF BACHELOR OF EDUCATION 188

DEGREES CONFERRED IN 1949 189

REGISTER OF STUDENTS 193
Summary 210

INDEX 211

1951

JANUARY

S	M	T	W	T	F	S
....	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	....	....	....

FEBRUARY

....	....	....	....	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	....	....	....

MARCH

....	....	....	....	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

APRIL

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	....	....	....	....	....

MAY

....	....	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	....	....

JUNE

....	....	....	....	....	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	....	....	....	....

AUGUST

....	....	....	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	....

SEPTEMBER

....	....	....	....	....	....	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	....	....	....	....	....	....

OCTOBER

....	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	....	....	....

NOVEMBER

....	....	....	....	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	....

DECEMBER

....	....	....	....	....	....	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	....	....	....	....	....

1952

JANUARY

S	M	T	W	T	F	S
....	....	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	....	....

FEBRUARY

....	....	....	....	....	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	....

MARCH

....	....	....	....	....	....	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	....	....	....	....	....

APRIL

....	....	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	....	....	....

MAY

....	....	....	....	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JUNE

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	....	....	....	....	....

JULY

S	M	T	W	T	F	S
....	....	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	....	....

AUGUST

....	....	....	....	....	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	....	....	....	....	....	....

SEPTEMBER

....	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	....	....	....	....

OCTOBER

....	....	....	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	....

NOVEMBER

....	....	....	....	....	....	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	....	....	....	....	....	....

DECEMBER

....	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	....	....	....

Calendar

The academic year begins on the Monday before the fourth Thursday in September and continues through the Sunday before the thirty-eighth Monday. It includes two approximately equal semesters and two vacation periods:—two weeks including Christmas Day and New Year's, and a week near the first of April.

The first semester ends on the Saturday before the twentieth Monday and the second semester begins on the twentieth Monday of the academic year.

1950-51

Sept.	25	Monday	Beginning of academic year 1950-51.
Oct.	5	Thursday	Last day for payment of term bills.
Oct.	12	Thursday	Columbus Day. A holiday.
Nov.	1	Wednesday	Last day for receiving applications for admission to candidacy for the Degree of Doctor of Philosophy in June 1951.
Nov.	11	Saturday	Armistice Day. Not a holiday.
Nov.	18	Saturday	Mid-semester reports.
Nov.	22	Wednesday	Beginning of Thanksgiving recess at 5 P.M.
Nov.	27	Monday	End of Thanksgiving recess at 8 A.M.
Dec.	16	Saturday	Beginning of Christmas recess at 1 P.M.
1951			
Jan.	2	Tuesday	End of Christmas recess at 8 A.M.
Jan.	17	Wednesday	Registration for second semester. Classes omitted.
Jan.	22	Monday	Beginning of semester examination period.
Feb.	3	Saturday	End of first semester.
Feb.	5	Monday	Beginning of second semester.
Feb.	10	Saturday	Last day for receiving applications for admission to candidacy for the Degrees of Master of Arts and Master of Arts in Education in June 1951.
Feb.	15	Thursday	Last day for payment of term bills.
Feb.	22	Thursday	Washington's Birthday. A holiday.
Mar.	24	Saturday	Mid-semester reports.
Mar.	31	Saturday	Beginning of spring recess at 1 P.M.
Apr.	9	Monday	End of spring recess at 8 A.M.
Apr.	19	Thursday	Patriot's Day. Not a holiday.
May	14	Monday	Ph.D. dissertations due at Recorder's Office at 9 A.M.
May	21	Monday	M.A. theses due at Recorder's Office at 9 A.M.
May	24	Thursday	Beginning of semester examination period.
May	30	Wednesday	Memorial Day. A holiday.
June	9	Saturday	Commencement Day.

1951 Summer School

June	25	Monday	Beginning of first session. Registration day.
July	4	Wednesday	Fourth of July. A holiday.
Aug.	3	Friday	End of first session.
Aug.	6	Monday	Beginning of second session. Registration day.
Sept.	14	Friday	End of summer term.

1951-52

Sept.	24	Monday	Beginning of academic year.
Oct.	4	Thursday	Last day for payment of term bills.
Oct.	12	Friday	Columbus Day. A holiday.
Nov.	1	Thursday	Last day for receiving applications for admission to candidacy for the Degree of Doctor of Philosophy in June 1952.
Nov.	11	Sunday	Armistice Day.
Nov.	12	Monday	Not a holiday.
Nov.	17	Saturday	Mid-semester reports.
Nov.	21	Wednesday	Beginning of Thanksgiving recess at 5 P.M.
Nov.	26	Monday	End of Thanksgiving recess at 8 A.M.
Dec.	18	Tuesday	Beginning of Christmas recess at 5 P.M.
1952			
Jan.	2	Wednesday	End of Christmas recess at 8 A.M.
Jan.	15	Tuesday	Registration for second semester. Classes omitted.
Jan.	21	Monday	Beginning of semester examination period.
Feb.	2	Saturday	End of first semester.
Feb.	4	Monday	Beginning of second semester.
Feb.	9	Saturday	Last day for receiving applications for admission to candidacy for the Degrees of Master of Arts and Master of Arts in Education in June 1952.
Feb.	14	Thursday	Last day for payment of bills.
Feb.	22	Friday	Washington's Birthday. A holiday.
Mar.	22	Saturday	Mid-semester reports.
Apr.	5	Saturday	Beginning of spring recess at 1 P.M.
Apr.	14	Monday	End of spring recess at 8 A.M.
Apr.	19	Saturday	Patriot's Day. Not a holiday.
May	12	Monday	Ph.D. dissertations due at Recorder's Office at 9 A.M.
May	19	Monday	M.A. theses due at Recorder's Office at 9 A.M.
May	22	Thursday	Beginning of semester examination period.
May	30	Friday	Memorial Day. A holiday.
June	8	Sunday	Commencement Day.
Sept.	22	Monday	Beginning of academic year 1952-1953.

Alphabetical Listing of Faculty, Administration

Allen, George E., A.B., Alumni Secretary
Alper, Thelma G., Ph.D., Associate Professor of Psychology
Anderson, Karl O. E., Ph.D., Associate Professor of English
Arndt, Karl J., Ph.D., Professor of German
Barlow, Claude W., Ph.D., Assistant Professor of Classics
Barnett, Herbert F., Associate Professor Affiliate of Fine Arts
Beck, Robert N., Ph.D., Instructor of Philosophy
Bell, John E., Ed.D., Associate Professor of Psychology
Blair, John H., M.A., Assistant Professor of Physiology
Borger, Henry C., Jr., M.A., Assistant Professor of Education
Breen, Philip H., LL.B., Lecturer in Business Law
Bullock, Jesse L., Ph.D., Professor of Chemistry
Bumer, Charles T., Ph.D., Professor of Mathematics
Burnham, Guy H., M.A., Instructor of Geography, Cartographer
Campbell, Robert F., Ph.D., Associate Professor of American History
Carter, William H., Ph.D., Instructor of English
Christian, Robert R., M.A., Instructor of Mathematics
Cohen, Morris H., Ph.D., Assistant Professor of Government
Colby, Lydia P., Recorder
Cole, Donald P., B.S., Director of Public Relations
Cowardin, Samuel P., III, M.A., Instructor of Fine Arts
Daigler, Jo Ann, B.Ed., Assistant Director of Physical Education for Women
Edwards, James S., M.A., Assistant Professor of German
Fawcett, Charles B., D.Sc., Visiting Professor of Human Geography
Fox, Michael B., M.D., Medical Director for Men
Gerould, Albert C., B.S. in L.S., Librarian
Gifford, Raymond T., A.B., Treasurer
Gollin, Eugene S., M.A., Lecturer in Psychology
Granger, Rocheleau Z., Jr., M.A. in Ed., Director Physical Education for Men
Gunter, Roy C., Jr., Ph.D., Associate Professor of Physics
Gwinn, Gordon T., Ph.D., Assistant Professor of Psychology
Hastings, Edward H., M.A., Instructor of English
Hargest, George E., M.B.A., Assoc. Prof. Economics and Bus. Admin.
Hayden, Sherman S., Ph.D., Associate Professor of International Relations
Higbee, Edward C., Ph.D., Associate Professor of Geography
Hubbard, Mary A., Bursar
Hughes, M. Hazel, M.Ed., Associate Dean for Women
Illingworth, Robert S., Ed.M., Professor of Speech and Drama
Jefferson, Howard B., Ph.D., President
Johnson, H. Earle, Mus.M., Assistant Professor of Music
Johnson, Victor B., Ed.D., Associate Dean for Men
Jones, Vernon, Ph.D., Professor of Educational Psychology
Jordan, H. Donaldson, Ph.D., Professor of English History
Kaliris, Constance, M.D., Medical Director for Women
Kelley, Eugene J., M.B.A., Assistant Prof. Economics and Bus. Admin.
Killian, Frederick W., LL.B., Associate Professor of Sociology
King, J. Fannin, A.M., Assistant Professor of Romance Languages
Lambert, Roland C., B.S., Asst. Dir. Physical Education for Men
Lane, David, M.A., Assistant Professor of Education
Lee, Dwight E., Ph.D., Professor of Modern European History

Letendre, Donald H., A.M. in Ed., Instructor of English
Little, Homer P., Ph.D., Dean
Lougee, Richard J., Ph.D., Professor of Physiography
Lucas, Arthur F., Ph.D., Professor of Economics
MacGillavry, Donald, Jr., Ph.D., Associate Professor of Chemistry
MacQueen, Donald E., M.A., Instructor of Romance Languages
Martell, Arthur E., Ph.D., Associate Professor of Chemistry
Martin, Richard B., Ph.D., Assistant Professor of Chemistry
Maxwell, James A., Ph.D., Professor of Economics
Melder, F. Eugene, Ph.D., Associate Professor of Economics and Sociology
Meyer, Edith, Ph.D., Associate Professor Affiliate of Psychology
Miller, Allan B., A.B., Assistant Treasurer
Moore, Howard K., Ph.D., Assistant Professor of English
Murphy, Raymond E., Ph.D., Professor of Economic Geography
Nicol, Theodore, Ph.D., Associate Professor of Romance Languages
Nordstrom, Joseph A., M.S., Assistant Professor Business Administration
Nunnemacher, Rudolph F., Ph.D., Associate Professor of Biology
Phillips, Leslie, Ph.D., Assoc. Prof. Affiliate Clinical Psychology
Potter, David, Ph.D., Professor of Biology
Raeff, Marc, Ph.D., Instructor of Russian Language and History
Raisz, Erwin J., Ph.D., Visiting Lecturer of Geography
Ramsey, Walter A., M.A., Assistant Professor of Romance Languages
Reid, J. Richard, Ph.D., Associate Professor of Romance Languages
Roope, Percy M., Ph.D., Professor of Physics
Schaffer, Sheldon, M.A., Instructor of Economics
Shafer, Roy, Ph.D., Lecturer in Psychology
Stone, Chester C., B.S., Instructor of Mathematics
Stubbe, John S., Ph.D., Assistant Professor of Mathematics
Van Valkenburg, Samuel, Ph.D., Professor of Geography
Wapner, Seymour, Ph.D., Associate Professor of Psychology
Warman, Henry J., Ph.D., Associate Professor of Geography
Weinreb, Joseph, M.D., Professor Affiliate of Psychology
Welti, Peter E., Ph.D., Instructor of German
Werner, Heinz, Ph.D., Professor of Psychology
Wyatt, Frederick, Ph.D., Associate Professor Affiliate of Psychology

BOARD OF TRUSTEES

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

George H. Mirick (1920), President	Worcester, Mass.
Francis H. Dewey, Jr. (1934)	Worcester, Mass.
Robert H. Loomis (1936)	Boston, Mass.
Frank L. Adams (1938)	Worcester, Mass.
Howard M. Booth (1939)	Worcester, Mass.
Samuel H. Dolbear (1940)	New York, N. Y.
Carl E. Wahlstrom (1942), Vice-President	Worcester, Mass.
Raymond T. Gifford (1947), Treasurer	Worcester, Mass.
John Jeppson (1948)	Worcester, Mass.
Harry C. Coley (1948)	Worcester, Mass.

ELECTED TO REPRESENT THE ALUMNI

(Four Year Term)

Roland A. Erickson (1947), Secretary	Worcester, Mass.
Hiram N. Rasely (1948)	Belmont, Mass.
John C. O'Brien (1949)	Chevy Chase, Md.
Eugene L. Richmond (1950)	Worcester, Mass.

ADMINISTRATION

President of the University	Howard B. Jefferson
Dean of the College	Homer P. Little
Treasurer	Raymond T. Gifford 18 Chestnut St., Worcester, Mass.
Librarian	Albert C. Gerould
Associate Dean for Men	Victor B. Johnson
Associate Dean for Women	M. Hazel Hughes
Recorder	Lydia P. Colby
Assistant Treasurer	Allan B. Miller
Bursar	Mary A. Hubbard
Director of Public Relations	Donald P. Cole
Secretary of the Alumni	George E. Allen
Medical Director for Men	Michael B. Fox, M.D.
Medical Director for Women	Constance Kaliris, M.D.

Faculty

(Listed in order of academic seniority within each rank)

Howard Bonar Jefferson, Ph.D., LL.D. 160 Woodland St.
President and Professor of Philosophy since 1946.
A.B., Denison University, 1923; Ph.D., Yale University, 1929; LL.D., Denison University, 1948.

Homer Payson Little, Ph.D. 156 Woodland St.
Dean of the College and Professor of Geology since 1922.
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910.

EMERITI

Benjamin Shores Merigold, Ph.D., Sc.D. 17 Charlotte St.
Professor of Chemistry, Emeritus

George Hubbard Blakeslee, Ph.D., L.H.D. Washington, D. C.
Professor of History and International Relations, Emeritus.

Philip Hudson Churchman, Ph.D. 20 Institute Rd.
Professor of Romance Languages, Emeritus.

Haven Darling Brackett, Ph.D. 138 Elm St.
Professor of Greek and Latin, Emeritus.

Leroy Allston Ames, A.M. Spencer, Mass.
Professor of English Literature, Emeritus.

William Homer Warren, Ph.D. Fayston, Vt.
Professor of Organic Chemistry, Emeritus.

Douglas Clay Ridgley, Ph.D. Bloomington, Ill.
Professor of Geography in Education, Emeritus.

Carey Eyster Melville, A.B. 33 Vincent Ave.
Professor of Mathematics, Emeritus.

Loring Holmes Dodd, Ph.D. 88 Sagamore Rd.
Professor of Rhetoric, Emeritus.

Samuel J. Brandenburg, Ph.D. 9 Willard Ave.
Professor of Economics and Sociology, Emeritus

PROFESSORS

JESSE LUNT BULLOCK, PH.D. 35 Downing St.

Professor of Chemistry and Director of the Chemical Laboratories.

A.B., Harvard University, 1914; A.M., 1928; Ph.D., 1932. Assistant Professor, 1926-32; Associate Professor, 1932-37; Professor since 1937 (February).

JAMES ACKLEY MAXWELL, PH.D. 15 Sunnyhill Dr.

Professor of Economics.

A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927. Instructor, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-37; Professor since 1937 (February).

SAMUEL VAN VALKENBURG, PH.D. 11 South Flagg St.

Professor of Geography. Director of the Graduate School of Geography.

Ph.D., University of Zürich, 1918. Special Lecturer in Geography, second semester, 1926-27; Assistant Professor, 1927-29; Associate Professor, 1932-37; Professor since 1937 (February).

ROBERT STANLEY ILLINGWORTH, A.M., ED.M. 209 Lovell St.

Professor of Speech and Drama.

A.B., Clark University, 1917; A.M., Lafayette College, 1926; Ed.M., Harvard University, 1933; B.D., Andover Theological School, 1945. Associate Professor of English, 1931-38; Professor since 1938 (February). Director of the Summer School, 1935-41.

VERNON JONES, PH.D. 267 Salisbury St.

Professor of Educational Psychology.

A.B., and A.M., University of Virginia, 1920; A.M., Columbia University, 1924; Ph.D., 1926. Associate Professor, 1926-38; Professor since 1938 (February).

HENRY DONALDSON JORDAN, PH.D. 171 Woodland St.

Professor of English History.

A.B., Harvard University, 1918; A.M., 1922; Ph.D., 1925. Associate Professor, 1931-38; Professor since 1938 (February).

DWIGHT ERWIN LEE, PH.D. 3 Woodman Rd.

Professor of Modern European History.

A.B., University of Rochester, 1921; A.M., 1922; Ph.D., Harvard University, 1928 (February). Assistant Professor, 1927-30; Associate Professor, 1930-38; Professor since 1938 (February).

ARTHUR FLETCHER LUCAS, PH.D. 54 Morningside Rd.
Professor of Economics. Director of the Division of Business Administration.
A.B., Bates College, 1920; A.M., Princeton University, 1923; Ph.D., 1925. Assistant Professor, 1926-29; Associate Professor, 1929-38; Professor since 1938 (February).

DAVID POTTER, PH.D. 113 South St., Auburn, Mass.
Professor of Biology.
B.Sc., Massachusetts Agricultural College, 1916; M.Sc., 1923; Ph.D., Harvard University, 1932. Instructor, 1924-27; Assistant Professor, 1927-33; Associate Professor, 1933-38; Professor since 1938 (February).

PERCY MARTIN ROOPE, PH.D. 2 Lovell Drive
Professor of Physics.
A.B., Clark University, 1920; A.M., 1924; Ph.D., 1927. Instructor, 1921-27; Assistant Professor, 1927-31; Associate Professor, 1931-43; Professor since 1943.

RAYMOND EDWARD MURPHY, PH.D.
153 Boylston St., Shrewsbury, Mass.
Professor of Economic Geography since 1946.
B.S., Missouri School of Mines and Metallurgy, 1923; M.S., University of Wisconsin, 1926; Ph.D., 1930.

HEINZ WERNER, PH.D. 10 Atwater St.
Professor of Psychology since 1947.
G. Stanley Hall Professor of Genetic Psychology, April, 1949.
Ph.D., University of Vienna, 1915.

CHARLES THEODORE BUMER, PH.D. 121 Richmond Ave.
Professor of Mathematics since 1948.
B.Sc., Denison University, 1919; M.A., Harvard University, 1922; Ph.D., Ohio State University, 1931.

RICHARD JEWETT LOUGEE, PH.D.
Brigham Hill Rd., North Grafton, Mass.
Professor of Physiography.
B.S., Dartmouth College, 1927; A.M., University of Michigan, 1929; Ph.D., Columbia University, 1938. Associate Professor, 1947 (January)-1950; Professor since 1950.

KARL J. ARNDT, PH.D. 5 Hazelwood Road
Professor of German since 1950.
A.M., Washington University, 1928; Ph.D., The Johns Hopkins University, 1933.

Charles Bungay Fawcett, D.Sc. 17 Claremont St.
Visiting Professor of Human Geography, 1950-51.
B.Sc., Nottingham College, 1908; B.Litt., Oxford University, 1913; M.Sc., Nottingham College, 1916; D.Sc., University of London, 1925.

Joseph Weinreb, M.D. 21 Catherine St.
Professor (Affiliate) of Psychology since 1947.
B.A., Vanderbilt University, 1931; M.D., 1935.

ASSOCIATE PROFESSORS

Rudolf Fink Nunnemacher, Ph.D.
1 Manchaug Rd., Sutton, Mass.
Associate Professor of Biology.
B.S., Kenyon College, 1934; M.A., Harvard University, 1935; Ph.D., 1938. Assistant Professor, 1939-44; Associate Professor since 1944.

John Elderkin Bell, Ed.D. 117 Forest St.
Associate Professor of Psychology since 1944.
B.A., University of British Columbia, 1933; M.A., Columbia University, 1941; Ed.D., 1942.

Arthur Earl Martell, Ph.D. 17 Hapgood Way, Shrewsbury
Associate Professor of Chemistry.
B.S., Worcester Polytechnic Institute, 1938; Ph.D., New York University, 1941. Assistant Professor, 1942-46; Associate Professor since 1946 (January).

Donald MacGillavry, Jr., Ph.D. 1133 Pleasant St.
Associate Professor of Chemistry since 1946.
Cand., University of Amsterdam, 1923; Docts., University of Amsterdam, 1928; Ph.D., Columbia University, 1933.

Albert Chamberlain Gerould Rochdale, Mass.
Librarian.
A.B., Dartmouth College, 1932; B.S. in Libr. Sci., Columbia University, 1935.

Frederick W. Killian, A.B. ~~15 Worcester Ave., Grafton, Mass.~~
Associate Professor of Sociology since 1947. 7 Woodbine St.
A.B., New York University, 1934; LL.B., 1925.

George Edward Hargest, M.B.A. 150 Woodland St.
Associate Professor of Economics and Business Administration.
B.S., Temple University, 1933; M.Ed., 1937; M.B.A., Boston University, 1947. Assistant Professor, 1942-48; Associate Professor since 1948.

Theodore Nicol, Ph.D. 10 Circuit Ave.
Associate Professor of Romance Languages.
A.B., Clark University, 1926; A.M., Harvard University, 1928; Ph.D., 1933. Visiting Professor, 1946-48; Associate Professor since 1948.

J. Richard Reid, Ph.D. Stafford St., Rochdale, Mass.
Associate Professor of Romance Languages.
A.B., Swarthmore College, 1935; A.M., Harvard University, 1936; Ph.D., 1943. Assistant Professor, 1944-48; Associate Professor since 1948.

Seymour Wapner, Ph.D. 20 Prouty Lane
Associate Professor of Psychology since 1948.
A.B., New York University, 1939; A.M., University of Michigan, 1940; Ph.D., 1943.

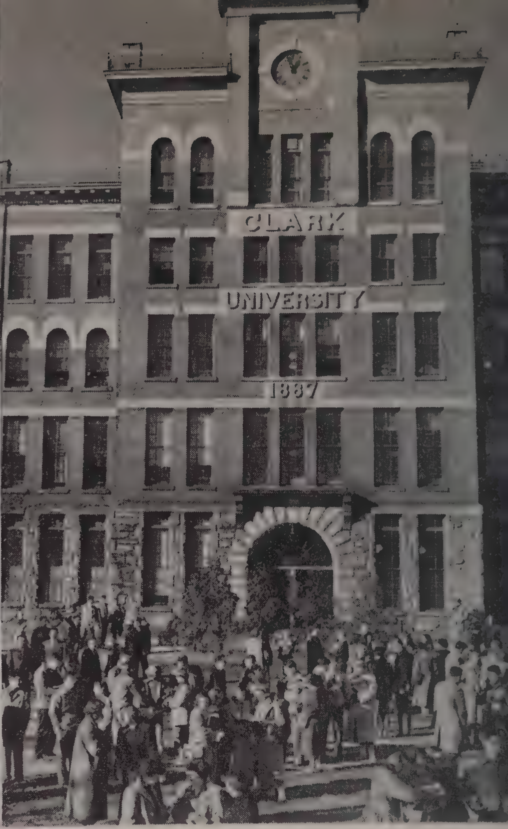
Thelma G. Alper, Ph.D. 97 Mt. Vernon St., Boston, Mass.
Associate Professor of Psychology since 1948.
A.B., Wellesley College, 1929; M.A., 1933; Ph.D., Harvard University, 1943.

Karl Oscar Emanuel Anderson, Ph.D. 44 Richmond Ave.
Associate Professor of English.
A.B., Harvard University, 1927; A.M., 1928; Ph.D., 1942. Assistant Professor, 1945-49; Associate Professor since 1949.

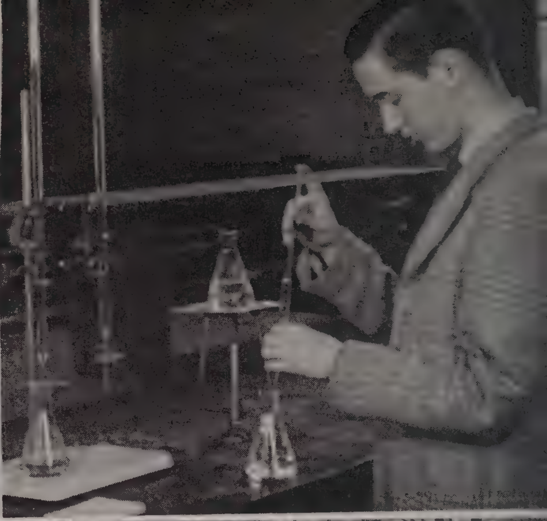
Henry John Warman, Ph.D. 193 Lovell St.
Associate Professor of Geography.
B.S. in Ed., Bloomsburg, Pa., State Teachers' College, 1932; Ed.M., Temple University, 1938; Ph.D., Clark University, 1945. Assistant Professor, 1943-44, 1945-48; Associate Professor since 1948.

Roy Chalmers Gunter, Ph.D. Dodge, Mass.
Associate Professor of Physics.
B.S., Bowdoin College, 1938; A.M., Boston University, 1939; Ph.D., 1942. Instructor in Physics and Mathematics 1941 (February)-1943; Assistant Professor of Physics 1943-49; Associate Professor since 1949.

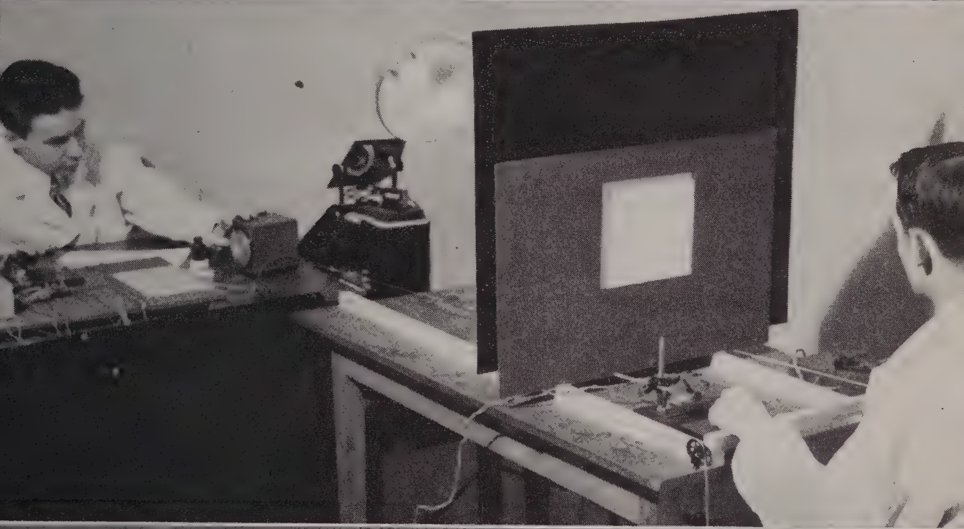
Sherman Strong Hayden, Ph.D. 68 Moore Ave.
Associate Professor of International Relations.
A.B., Harvard University, 1930; LL.B., 1933; M.A., Columbia University, 1936; Ph.D., 1942. Assistant Professor, 1946-49; Associate Professor since 1949.

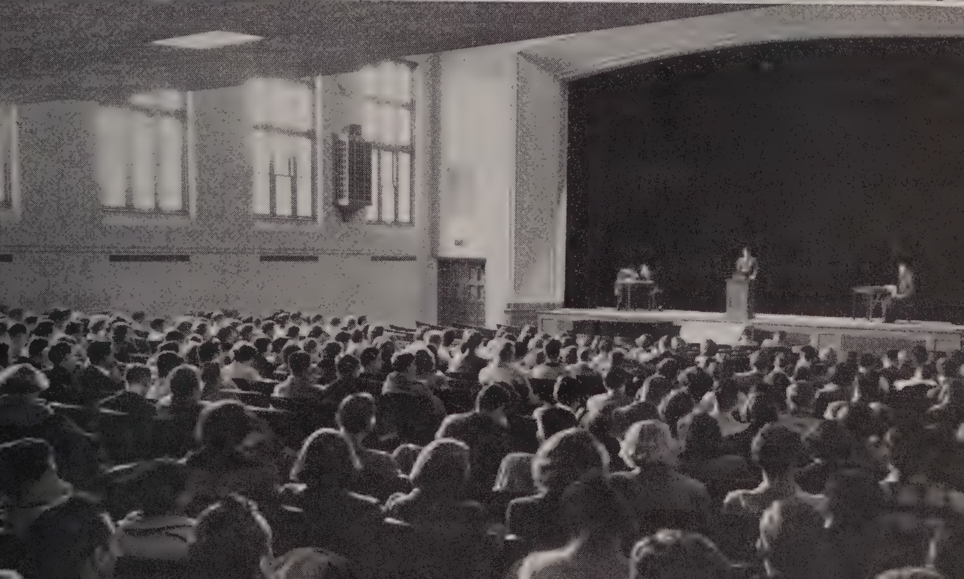

CLARK
UNIVERSITY
1887

Babcock Hall
144



7
13





FREDERICK EUGENE MELDER, PH.D. 173 Woodland St.
Associate Professor of Economics.
B.B.A., University of Washington, 1926; M.A., 1931; Ph.D., University of Wisconsin, 1936. Assistant Professor, 1937-42; Associate Professor, 1942-46, 1950-.

EDWARD COUNSELMAN HIGBEE, PH.D.
78 Highland St., Holden, Mass.
Associate Professor of Geography since 1950.
B.A., University of Wisconsin, 1932; M.A., 1938; Ph.D., Johns Hopkins University, 1949.

ROBERT FRANCIS CAMPBELL, PH.D. 3 Richmond Ave.
Associate Professor of American History.
A.B., Yale University, 1939; A.M., Columbia University, 1940; Ph.D., 1947. Assistant Professor, 1946-50, Associate Professor since 1950.

HERBERT P. BARNETT 19B Elm Street
Associate Professor (Affiliate) of Fine Arts since 1946.
Head of Department of Drawing, Painting and Sculpture, School of the Worcester Art Museum.

EDITH MEYER, PH.D. Jamaica Plain, Mass.
Associate Professor (Affiliate) in Psychology since 1947.
Ph.D., University of Leipzig, 1933; Diplômes des Etudes Pédagogiques, University of Geneva, 1935.

FREDERICK WYATT, PH.D. Cambridge, Mass.
Associate Professor (Affiliate) in Psychology since 1947.
Ph.D., University of Vienna, 1936.

LESLIE PHILLIPS, PH.D. 47 Lear St.
Associate Professor (Affiliate) in Clinical Psychology.
M.A., University of Chicago, 1944; Ph.D., 1949. Instructor (Affiliate) 1946-50; Assistant Professor (Affiliate) 1950; Associate Professor (Affiliate) since 1950.

ASSISTANT PROFESSORS

M. HAZEL HUGHES, M.ED. 638 Pleasant St.
Director of Physical Education for Women.
B.Ed., Clark University, 1944; M.Ed., Boston University, 1949.

J. Fannin King, A.M. Estabrook Hall
Assistant Professor of Romance Languages since 1946.
A.B., Pomona College, 1936; A.M., Harvard University, 1937.

Claude W. Barlow, Ph.D. 9 Hawthorne St.
Assistant Professor of Classics since 1947.
A.B., Amherst College, 1928; M.A., Indiana University, 1930; Ph.D., Yale University, 1935.

Morris H. Cohen, Ph.D. 511 Park Ave.
Assistant Professor of Government since 1947.
A.B., University of Chicago, 1939; Ph.D., 1950.

James S. Edwards, A.M. 6 Richards St.
Assistant Professor of German since 1947.
A.B., Brown University, 1936; A.M., 1938.

H. Earle Johnson, Mus.M. 7 Hawthorne St.
Assistant Professor of Music.
Mus.B., Boston University, 1933; Mus. B., Yale University, 1934; Mus.M., 1935. Instructor, 1936-42; Assistant Professor since 1947.

Victor B. Johnson, Ed.D. Dodge, Mass.
Assistant Professor of Education since 1947. Associate Dean for Men.
A.B., Upsala College, 1933; A.M., Teachers College, Columbia University, 1941; Ed.D., 1950.

John Hiram Blair, M.A. 17 Fiske St.
Assistant Professor of Physiology since 1948.
B.A., Wesleyan University, 1937; M.A., 1939.

David Lane, M.A. 26 Minthorne St.
Assistant Professor of Education since 1948.
A.B., University of Maryland, 1941; M.A., Columbia University, 1947.

Walter Andrew Ramsey, M.A.
4 Colonial Drive, Cherry Valley, Mass.
Assistant Professor of Romance Languages since 1948.
B.A., University of Cincinnati, 1937; M.A., 1939.

Rocheleau Z. Granger, Jr., M.A. in Ed. Brookfield, Mass.
Director of Physical Education for Men.
B.A., Clark University, 1938; M.A. in Ed., 1939.

Richard Blazo Martin, Ph.D. 150 Pleasant St., Grafton, Mass.
Assistant Professor of Chemistry.
A.B., Clark University, 1939; A.M., 1940; Ph.D., 1949. Instructor, 1946-49; Assistant Professor since 1949.

Gordon T. Gwinn, Ph.D. 4 Stoneland Road
Assistant Professor of Psychology since 1949.
B.A., University of Arizona, 1942; Ph.D., Yale University, 1948.

Eugene John Kelley, M.B.A. 16 Oread St.
Assistant Professor of Economics and Business Administration.
B.S., University of Connecticut, 1944; M.Ed., Boston University, 1948; M.B.A., 1949.

John S. Stubbe, Ph.D. 101 South Flagg St.
Assistant Professor of Mathematics since 1949.
B.S., University of New Hampshire, 1941; M.S., Brown University, 1942; Ph.D., University of Cincinnati, 1945.

Howard Kimball Moore, Ph.D. 1a Melville St.
Assistant Professor of English.
A.B., Boston University, 1939; A.M., 1940; Ph.D., 1950. Instructor, 1946-50, Assistant Professor since 1950.

Joseph A. Nordstrom, M.S. Cambridge, Mass.
Assistant Professor of Business Administration since 1950.
B.S., Northeastern University, 1941; M.S., Massachusetts Institute of Technology, 1947.

Henry Charles Borger, Jr., M.A. Union St., Holden, Mass.
Assistant Professor of Education since 1950.
A.B., Princeton University, 1933; M.A., Columbia University, 1938.

INSTRUCTORS

Donald Henry Letendre, A.M. in Ed. 17 Oberlin St.
Instructor in English since 1946 (January).
A.B., Clark University, 1938; A.M. in Ed., 1939.

Guy Harvey Burnham, A.M. 19 Woodman Rd.
Instructor in Geography since 1946. Cartographer, Graduate School of Geography since 1922.
A.B., Clark University, 1916; A.M., 1922.

Chester Cushing Stone, B.S. 18 High St., Spencer, Mass.
Instructor in Mathematics since 1946.
B.S., Massachusetts State College, 1942.

Donald E. MacQueen, M.A. 22 Richards St.
Instructor in Romance Languages since 1947.
B.A., Adrian College, 1937; M.A., University of Michigan, 1938.

Robert N. Beck, Ph.D. Wilkinsonville, Mass.
Instructor in Philosophy since 1948.
A.B., Clark University, 1947; M.A., Boston University, 1948; Ph.D., 1950.

Sheldon Schaffer, M.A. 4 Prouty Lane
Instructor in Economics since 1948.
B.A., University of Iowa, 1944; M.A., Yale University, 1947.

Robert R. Christian, M.A. 1 Harvard St.
Instructor in Mathematics since 1949.
B.S., Yale University, 1947; M.A., 1949.

Marc Raeff, Ph.D. 989 Main St.
Instructor in Russian History and Language since 1949.
M.A., Harvard University, 1947; Ph.D., 1950.

William H. Carter, Jr. 10 Silver St.
Instructor in English since 1949.
A.B., Middlebury College, 1936; A.M., Harvard University, 1938; Ph.D., 1951.

Peter E. Welti, Ph.D. 4 Hartshorn Ave.
Instructor in German since 1949.
Ph.D., University of Zurich, 1948.

Samuel P. Cowardin, III., A.M. Southborough, Mass.
Instructor in Fine Arts since 1949.
A.B., Harvard University, 1943; A.M., 1948.

Edward Harold Hastings, A.M. Dorchester, Mass.
Instructor in English since 1950.
A.B., Wesleyan University, 1946; A.M., Harvard University, 1947.

Philip H. Breen, LL.B. 151 Barnard Rd.
Lecturer in Business Law since 1947 (January).
A.B., The College of the Holy Cross, 1920; LL.B., Boston University, 1923.

Erwin Raisz, Ph.D.
Visiting Lecturer in Geography, 1949-50.
Diploma, Royal Polytechnicum, Budapest, 1914; M.A., 1924; Ph.D., Columbia University, 1929.

Eugene S. Gollin, M.A. 38 Benefit St.
Lecturer in Industrial Psychology, Second Semester 1950-51.
B.S. in S.S., College of the City of New York, 1947; M.A., 1948.

Roy Schafer, Ph.D. Stockbridge, Mass.
Lecturer in Dynamics of Personality, Second Semester 1950-51.
B.S., College of the City of New York, 1943; M.A., University of Kansas, 1947; Ph.D., Clark University, 1950.

ASSISTANTS IN PHYSICAL EDUCATION

Roland C. Lambert, B.S. 1285 Main St.
Assistant Director of Physical Education for Men.
B.S., Springfield College, 1937.

Jo Ann Daigler, B.Ed. 30 Oread St.
Assistant Director of Physical Education for Women.
B.Ed., University of Buffalo, 1950.

TEACHING FELLOWS

Carey B. Joynt
History and International Relations
A.B., University of Western Ontario, 1945; A.M., 1948.

Bernard Kaplan
Psychology.
B.A., Brooklyn College, 1948; A.M., Clark University, 1950.

James M. Mahoney
History and International Relations.
A.B., University of Connecticut, 1947; A.M., 1948.

John C. Mettler
Economics and Sociology.
A.B., Washburn College, 1938; M.A., Rutgers University, 1939.

Samuel M. Osgood
History and International Relations.
B.A., University of Nevada, 1949.

Walter Phillips
Economics and Sociology.
B.A., Rutgers University, 1950.

Richard Reed
Economics and Sociology.
A.B., Oberlin College, 1948; A.M., Clark University, 1950.

Clark W. Simmons
History and International Relations.
A.B., Hamilton College, 1947; A.M., Clark University, 1948.

Walter H. Zukowski
Economics and Sociology.
B.B.A., Clark University, 1948; A.M., 1949.

Administrative Boards and Committees

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the university and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Dwight E. Lee.

THE UNIVERSITY SENATE

Karl O. E. Anderson
Jesse L. Bullock
Charles T. Bumer
Robert S. Illingworth
Vernon Jones
Dwight E. Lee
Homer P. Little
James A. Maxwell
David Potter
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Howard B. Jefferson, *ex officio*

John E. Bell
Jesse L. Bullock
Sherman S. Hayden
Vernon Jones
H. Donaldson Jordan
Dwight E. Lee
Arthur F. Lucas
Arthur E. Martell
F. Eugene Melder
Raymond E. Murphy
David Potter
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner

James A. Maxwell, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the college, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the bachelor's degrees.

President Howard B. Jefferson, *ex officio*

Dean Homer P. Little, *ex officio*

Victor B. Johnson
Eugene J. Kelley
J. Fannin King
Howard K. Moore
Percy M. Roope

Rudolph F. Nunnemacher, *Secretary*

THE ACADEMIC COUNCIL

The Council, established by vote of the faculty, is appointed by the President of the University subject to regulations providing for the distribution of its membership among the various divisions and departments.

Its duties are to make recommendations regarding undergraduate educational policies, to check on the program of courses offered to undergraduates and to supervise honors work, senior surveys, and comprehensive examinations.

President Howard B. Jefferson, *ex officio*

Dean Homer P. Little, *ex officio*

Charles T. Bumer, *Chairman*

John E. Bell, *Secretary*

Claude W. Barlow
Robert F. Campbell
H. Earle Johnson
Theodore Nicol
David Potter
Percy M. Roope
Samuel Van Valkenburg

ADMINISTRATIVE COMMITTEE FOR THE DIVISION OF BUSINESS ADMINISTRATION

President Howard B. Jefferson, *ex officio*

Arthur F. Lucas, *Chairman*

John E. Bell
George E. Hargest
Homer P. Little
James A. Maxwell
Raymond E. Murphy

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected to advise the President regarding the personnel and the organization of departments.

Homer P. Little, *ex officio*

Karl O. E. Anderson
Jesse L. Bullock
Charles T. Bumer
H. Donaldson Jordan
James A. Maxwell
Samuel Van Valkenburg

THE LIBRARY COMMITTEE

Arthur E. Martell, *Chairman*

Sherman S. Hayden
J. Richard Reid

THE STUDENT ACTIVITIES FUND COMMITTEE

Percy M. Roope, *Chairman*

Guy H. Burnham, *Treasurer*
George E. Hargest

STANDING COMMITTEES OF THE GRADUATE BOARD

The President of the university is, ex officio, a member of all committees of the Graduate Board.

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

Samuel Van Valkenburg, *Chairman*

Jesse L. Bullock
Vernon Jones
Dwight E. Lee
Heinz Werner

James A. Maxwell, *Secretary*

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

J. Richard Reid, Associate Professor of Romance Languages
Karl J. Arndt, Professor of German
A representative of the student's major department

STANDING COMMITTEES OF THE COLLEGE BOARD

The President of the university and the Dean of the college are, ex officio, members of all committees of the College Board.

THE COMMITTEE ON ADMISSIONS

Sherman S. Hayden
Robert S. Illingworth
Victor B. Johnson
David Potter

THE COMMITTEE ON ATHLETICS

David Potter, *Chairman*
James A. Maxwell
Rocheleau Z. Granger, Jr.
Henry J. Warman

COMMITTEE ON SCHOLARSHIPS

Homer P. Little, *Chairman*

Charles T. Bumer
David Potter

THE UNIVERSITY

INFORMATION REQUESTS

HISTORICAL NOTE

WORCESTER AND THE UNIVERSITY

ORGANIZATION

BUILDINGS AND GROUNDS

THE LIBRARY

ADMISSION

THE ACADEMIC YEAR

TUITION AND OTHER EXPENSES

FELLOWSHIPS, SCHOLARSHIPS AND STUDENT AID

INFORMATION REQUESTS

In this catalog, you will find all of the information that is generally required.

If you have a special problem—

If you think you do not have sufficient secondary school units for regular admission—

Write to

THE DEAN OF THE COLLEGE
CLARK UNIVERSITY
WORCESTER 3, MASS.

If you wish to do graduate work in any department,

Write to

SECRETARY OF THE GRADUATE BOARD
CLARK UNIVERSITY
WORCESTER 3, MASS.

Specialized catalogs for the Division of Business Administration and the Graduate School of Geography are available on request.

Applications should be filed as early as possible. *Unduly late applications may fail to receive consideration.* Applications for admission should, so far as possible, be filed at the end of the Junior year and at the latest by

December 1st for February admission
June 1st for Summer School admission
May 1st for September admission

Historical Notes

The Charter of Clark University was granted by the General Court of Massachusetts in 1887. Within two years, in October, 1889, buildings had been constructed, a faculty assembled, and the first students enrolled.

In 1889 there existed in the United States, and especially in New England, reasonably ample provision for undergraduate liberal arts education. On the other hand, there was only one institution, Johns Hopkins University, which placed particular emphasis upon original research and the training of specialists. From 1889 to 1902, Clark University devoted its attention exclusively to graduate study and research, thus performing a unique function in higher education in America.

The long devotion to education and the generosity of Jonas Gilman Clark made possible the establishment of the University which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester, where he had resided since shortly after the Civil War.

For president of the new institution, Mr. Clark and the trustees selected Granville Stanley Hall, noted psychologist of Johns Hopkins University. President Hall organized in Worcester a faculty of brilliant scholars who earned an enviable reputation for the University and decisively shaped its character. In 1900, when the Association of American Universities was founded, Clark University was one of the fourteen charter members.

As time passed, the obligations of the University were extended to include an undergraduate college. In the fall of 1902, in compliance with the will of Mr. Clark, the trustees opened Clark College to the first class of young men who sought, in three years' time, "preparation for citizenship and their work in life." The administration and the faculty of the College were distinct from those of the Graduate School.

From the beginning, Clark College departed from the prevailing type of American college of that day. Seriousness of purpose and hard work on the part of undergraduates were demanded. Admission requirements were flexible, but a high standard of performance was enforced. The degree of Bachelor of Arts was granted after three years of study. Student programs were heavier than was common elsewhere. The liberal ideas of Mr. Clark and the trustees were effectively developed in the educational program presided over by Carroll Davidson Wright, who had resigned as first United States Commissioner of Labor to serve as President of Clark College until his death in 1909. He was succeeded by Edmund Clark Sanford, Professor of Psychology in the Graduate School.

Upon the resignations of Presidents Hall and Sanford in 1920, Wallace Walter Atwood, Professor of Physiography at Harvard University, became president of both the graduate and undergraduate departments of the University. The election of President Atwood marked the addition of geography at the graduate level to the instructional obligations of the University. The Graduate School of Geography, with President Atwood at Director, was organized to function within the general framework of the graduate department.

Significant changes were effected also in the College. The normal period of residence required for the degree of Bachelor of Arts was increased from three years to four. Participation in intercollegiate activities was encouraged. The physical equipment of the University was increased. In 1941, a program leading to the degree of Bachelor of Business Administration was introduced under the direction of the Division of Business Administration. Also in 1941 the Women's College of Clark University was established by the trustees of the University, and since the fall of 1942, women have constituted an integral part of the undergraduate student body. The academic requirements are the same for women and men.

In 1946 President Atwood was succeeded by Howard Bonar Jefferson who, at the time of his selection, was Professor of Philosophy and Director of the School of Philosophy and Religion at Colgate University.

Worcester and the University

When plans for the new University were taking shape in Mr. Clark's mind, he enlisted the aid of a group of far-sighted and influential Worcester citizens from whom, later, the majority of his original Board of Trustees was chosen. In this was set a pattern for cooperation between the University and the community which has persisted throughout the history of the institution. The intellectual life of the city has been enriched by the contributions of the faculty and of distinguished guests whom the University has brought to Worcester. Members of the staff have served local institutions, both public and private, in many ways. The college has opened the door to higher education for hundreds to whom the opportunity would have been denied if they had been forced to seek it elsewere, while the graduate school has aided the more gifted to proceed to the highest levels of intellectual endeavor. Particularly noteworthy has been the service to teachers in the public school system.

On the other hand, the University has benefited by the support, both financial and intangible, which it has received from the citizens of Worcester. The interchange of services and ideas with the staffs of other Worcester institutions and the opportunity to use their libraries on a reciprocal basis have been invaluable. There is particularly close coöperation between the Department of Fine Arts and the Worcester Art Museum, between the Department of History and International Relations and the American Antiquarian Society, and between the Departments of Psychology and Education and the Worcester State Hospital. The Worcester Public Library and the University Library coöperate by avoiding duplication in the coverage of certain subjects and by a corresponding widening of the coverage in the fields assigned to each.

In short, the University is conscious that it is a part of the community and that, as such, it has both obligations and benefits. Its steadfast purpose is to strengthen the pattern of mutual interdependence and coöperation.

Organization

The University includes:

At the graduate level:

The Graduate School offering instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

The Graduate School of Geography offering instruction leading to graduate degrees in Geography.

The Graduate Division of International Affairs offering instruction leading to graduate degrees in International Affairs.

At the undergraduate level:

The College for Men (Clark College) offering a general college course leading to the degree of Bachelor of Arts.

The College for Women offering a general college course leading to the degree of Bachelor of Arts.

The Undergraduate Division of Business Administration offering, to both men and women, vocational training, leading to the degree of Bachelor of Business Administration.

The Library with an endowment separate from the endowment of the teaching branches of the University.

The Clark University Press, associated with the University for the publication of scientific books and journals.

Buildings and Grounds

The University Campus is situated on Main Street about a mile and a quarter from the business center of Worcester. The administrative and educational activities of the University are centered here. On adjacent property facing the campus on Woodland Street, are dormitories, the dining hall, and residences of the President and of the Dean of the College. There is a small athletic field opposite the campus on Maywood Street, providing tennis courts and a running track. A larger field, at the corner of Beaver Street and Park Avenue, is used for soccer, baseball, and other sports. The Hadwen Aboretum, the gift of Obadiah B. Hadwen, is a tract of about twenty acres at the intersection of Lovell and May Streets.

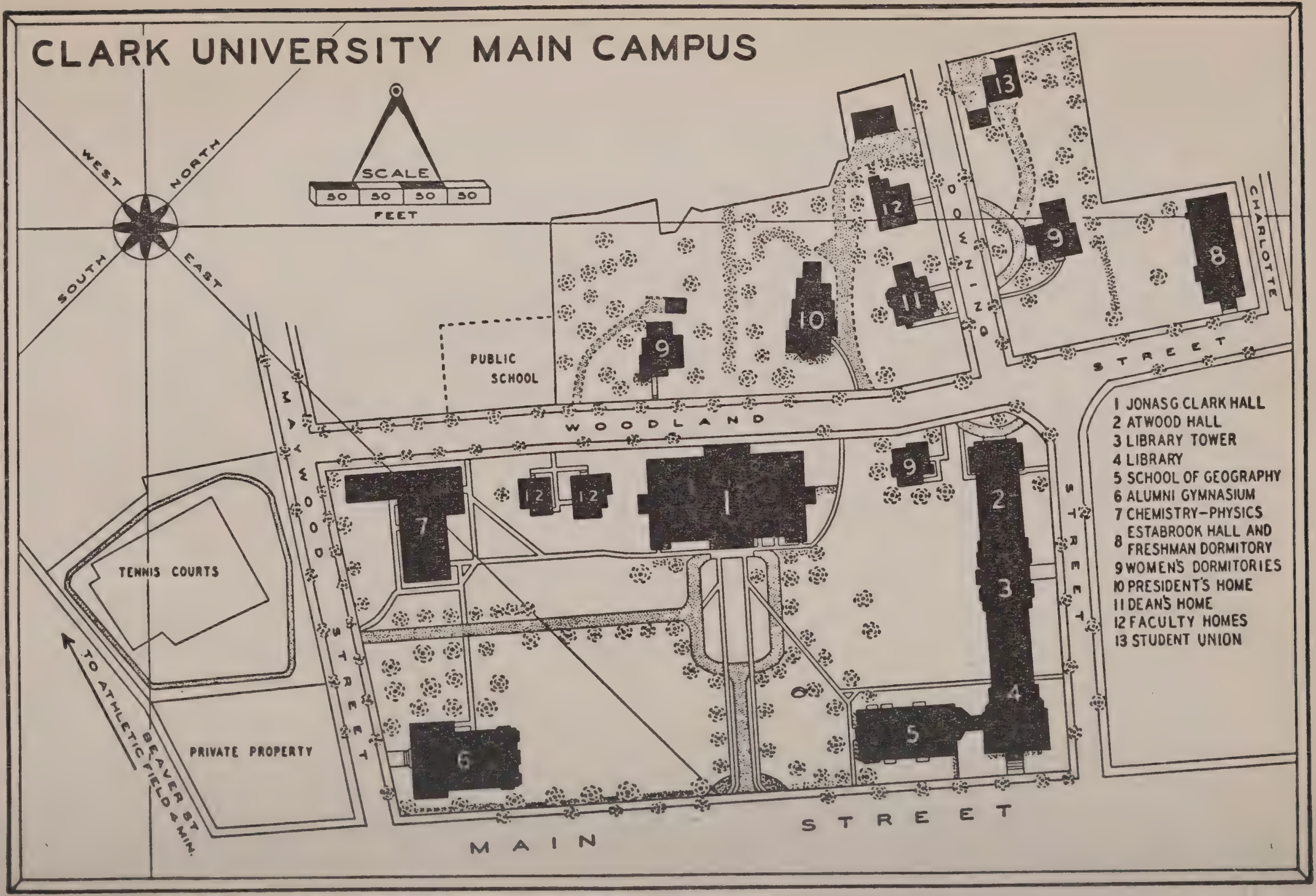
The Main Building (Jonas G. Clark Hall), completed in 1889, is a four-story, granite and brick structure containing about ninety rooms. It houses the general academic offices of the University and the offices and classrooms of most of the departments of instruction.

The Science Building, also completed in 1889, houses the Departments of Physics and Chemistry in a solidly built brick structure with interior partitions of brick.

The Library Building, completed in 1903, marked a departure from the style of the older buildings. Its design, which has been followed in all of the later University buildings, is a modern adaptation of the Gothic, using brick as the construction material.

The original building, at the corner of Main and Downing Streets, was enlarged in 1910 by the addition of a wing extending along Main Street. This wing is now used partly for library purposes and also houses the President's office and Graduate School of Geography. A second addition to provide for the growing book collections was added to the library in 1939. This is in the form of a tower which connects the Library Building with Atwood Hall.

Atwood Hall has its entrance on Woodland Street and extends along Downing Street to join the library tower. It provides an auditorium with a seating capacity of 800, which is used for weekly



CLARK UNIVERSITY MAIN CAMPUS

SCALE
50 50 50 50
FEET
NORTH
EAST
SOUTH
WEST
CHARLOTTE
DOWNING STREET
WOODLAND
MAYWOOD STREET
MAIN STREET
PUBLIC SCHOOL
TENNIS COURTS
PRIVATE PROPERTY
TO ATHLETIC FIELD 4 MIN.
BEAVER ST
1 JONAS G. CLARK HALL
2 ATWOOD HALL
3 LIBRARY TOWER
4 LIBRARY
5 SCHOOL OF GEOGRAPHY
6 ALUMNI GYMNASIUM
7 CHEMISTRY—PHYSICS
8 ESTABROOK HALL AND FRESHMAN DORMITORY
9 WOMEN'S DORMITORIES
10 PRESIDENT'S HOME
11 DEAN'S HOME
12 FACULTY HOMES
13 STUDENT UNION

college assemblies, dramatic performances, the Fine Arts Course, and other University functions. It is also used for public gatherings.

The Alumni Gymnasium, completed in 1938, is at the corner of Main and Maywood Streets. It provides a playing floor of ample size with seats for 800 spectators. The Gymnasium also contains a comfortable lounging room which provides a convenient and attractive meeting place for various University organizations.

Estabrook Hall, at the corner of Woodland and Charlotte Streets, provides dormitory accommodations for men and contains the University Dining Hall.

There are at present three women's dormitories, Fanning, Blakeslee and Woodland, all located adjacent to the campus.

The Library

Albert C. Gerould, *Librarian*

Helen J. Elliot, *Cataloger*

Marion Henderson, *Reference Librarian*

R. Webb Noyes, *Classifier* Guy Burnham, *Map Librarian*

As is typical of any institution Clark University Library's collections are a reflection of the history of the institution which they serve. The early library was, as might be expected, primarily a scholars' collection, serving the needs of the men whom President Hall had assembled around him. In 1902 with the founding of Clark College an undergraduate library was established. Though these two collections were later merged to form the present University Library which now amounts to about 200,000 volumes, those classes representing subjects in which no graduate work is offered such as music and the fine arts, language and literature, philosophy and religion are still characteristically undergraduate in content.

The richest collections are of course in those fields in which graduate work is offered: geography, history and international relations, economics, psychology, chemistry, biology, and mathematics.

Particularly noteworthy is the geography collection, assembled under the energetic direction of the late President Atwood and enriched in 1928 by the bequest by the late Col. William Libbey of Princeton, N. J., of his library, one of the finest geography collections in private hands in its time.

The library owns a collection of some 50,000 maps.

The psychology collection built up under the guidance of President Hall and to which he willed his own library is one of the best in the country for the period of Dr. Hall's activity. It is particularly rich in early runs of foreign journals.

Under Mr. Clark's will, his books and paintings together with a fund for their maintenance and increase came to the University. The collections are housed in the library where a part of them are on display in a room set aside for the purpose.

Admission

Four classes of students are accepted in the University:

1. Graduate Students, candidates for the degrees of Master of Arts, Master of Arts in Education, and Doctor of Philosophy. See announcement of the Graduate Schools.

2. Undergraduates, candidates for the degrees of Bachelor of Arts and Bachelor of Business Administration. Such candidates may be full time or part time students. See announcement of the undergraduate Colleges.

3. Part Time Students, candidates for an undergraduate degree who for some reason do not carry more than three courses at a given time.

4. Special Students, persons not prospective candidates for a degree, who wish to take advantage of the opportunities for study provided by the University and who give satisfactory evidence of adequate preparation for the work which they wish to undertake.

An applicant who holds a bachelor's degree may be admitted as a *special student non-graduate* if he does not intend to proceed to a graduate degree and does not intend to enroll in graduate courses (courses designated by a number beginning with 3). A special student non-graduate may enroll in courses beginning with 2, but will receive no graduate credit for such courses.

All special students are under the supervision of the College Board.

Applications from freshmen and transfer students are considered for the term opening in February.

Auditors may be admitted at the discretion of the administrative officers of the University. They are not enrolled as students in the University and do not pay the matriculation fee.

The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Requests for information and for application forms to the College should be addressed to The Dean, Clark University, 950 Main Street, Worcester (3), Massachusetts. Similar requests for the Graduate School should be addressed to the chairman, SECRETARY OF THE GRADUATE BOARD, CLARK UNIVERSITY, WORCESTER (3), MASSACHUSETTS.

The Academic Year

The academic year for 1950-51 is thirty-four weeks long, divided into two approximately equal semesters. This period is supplemented by a summer term slightly over six weeks in length.

The academic year begins on the Monday before the fourth Thursday in September and ends, in 1951-52, on the Sunday before the thirty-eighth Monday.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

Tuition and Other Expenses

In accordance with the express wish of the founder, the University has consistently aimed to keep its tuition and other fees as low as possible. The tuition has been raised from time to time in response to urgent need, but is still well below that charged by many similar institutions.

MATRICULATION FEE

A matriculation fee of $5.00 is required of all regularly enrolled students in Clark University.

Auditors are not required to pay the matriculation fee.

Official statements of record are issued by the Recorder for matriculated students only.

TUITION

The regular academic year. Tuition for undergraduates with programs of four or five courses is $450 for the academic year. Undergraduates and special or part time students who enroll for fewer than four or more than five courses pay $90 per course, $45 per half course. (For definition of a course and half-course, see Requirements for the Degree of Bachelor of Arts.)

Each undergraduate and special student carrying four or more courses pays also a yearly activities fee of $20 which is collected with the tuition.

Tuition for graduate students with normal programs, excepting those in the Clinical Training Program in Psychology, is $450 per year. Graduate students who enroll for less than a full program are charged at the rate of $90 per course.

Tuition for students in the Clinical Training Program in Psychology is $500 for the academic year.

One half of the annual tuition, laboratory and activities fees is collected at the beginning of each semester.

If tuition is not paid within ten days after the beginning of a semester the enrollment of the student lapses. A student whose enrollment has thus lapsed may be re-enrolled, with the permission of the proper administrative officer, on payment of the overdue tuition with an additional fee of $2.

Summer term. Tuition in the summer term, with a normal program of two subjects, is $90 for the session. The tuition for a single subject is $45.00.

Tuition is due and payable at any time before 5 P.M. of the Thursday following the opening of the summer term.

REFUND OF TUITION

The following regulation was adopted by the trustees on March 28, 1931:

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

LABORATORY FEES AND DEPOSITS

Laboratory fees, payable at the time of registration, are charged in undergraduate laboratory courses as follows:

$10-$30 for each course.

$5-$15 for each half-course.

A breakage and supplies deposit is required in all undergraduate laboratory courses in chemistry. These deposits are collected by the Bursar, at the time of registration, according to the following schedule:

$30 for any two courses taken concurrently.

$10 for each course, excepting those listed above.

$5 for each half-course, excepting those listed above.

The Bursar returns any unused balance or collects any charge for breakage in excess of the deposit, after the course is completed.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

A deposit of $25 is required at the beginning of the year from each graduate student in the department of chemistry. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

DIPLOMA FEES AND PUBLICATION FEES

For a bachelor's degree, the diploma fee, $5, is due at the beginning of the term in which the candidate expects to complete work in residence for the degree.

For a master's degree, the publication fee, $10, and the diploma fee, $10, are due when formal application for admission to candidacy for the degree is filed.

For the degree of Doctor of Philosophy, the publication fee, $15, and the diploma fee, $25, are due when formal application for admission to candidacy for the degree is filed.

MISCELLANEOUS FEES

Each freshman pays an induction period fee of $5.00.

The activities fee is $20.00.

Graduate students who use the gymnasium pay a fee of $10 per year.

Graduate students in geography pay in addition to the regular tuition, a camp fee, a workroom fee and a classroom-materials fee. For details see the announcement of the Graduate School of Geography.

Students who elect Fine Arts 1 pay a fee of $10 in addition to the regular tuition.

Students who elect History 10 pay a fee of $1 in addition to the regular tuition.

DINING HALL

Board at the dining hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is $10.50 per week, with *no refunds for absences except in cases of protracted illness.*

Undergraduates who do not live in their own homes are required to board at the dining hall. This fact must be recognized and subscribed to by all who seek admission. Board is payable *in advance* by the week, month or semester.

DORMITORIES

Freshman men not living in their own homes or with near relatives are required to room in Estabrook Hall.

Women students who do not live in their own homes or with near relatives are required to room in one of the Women's Dormitories.

The charges for rooms in Estabrook Hall are as follows:

For all rooms, except those on the mezzanine floor:
- Suite of two rooms occupied by two men, $155 per year for each occupant.
- Suite of two rooms, occupied by one man, $190 per year.
- Single room occupied by two men, $130 per year for each occupant.
- Single room occupied by one man, $165 per year.

For rooms on the mezzanine floor:
- Single room occupied by two men, $135 per year for each occupant.
- Single room occupied by one man, $165 per year.

The charges for rooms in the Women's Dormitories are as follows:
- Single room occupied by one student, $165 per year.
- Double room, $135-$145 per year for each occupant.
- Triple room, $110-$120 per year for each occupant.

Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit $25 before occupying a room. This deposit is returned, less a charge for lights and for any damages to the room or its furnishings, after the key to the room is surrendered to the Bursar.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25. Students who indicate a desire for a room together will be accommodated whenever possible. Rooms not required for freshmen may be rented by upper classmen or by graduate students. Such vacancies are, however, rare.

COLLEGE EXPENSES—SUMMARY

A student in the college who lives in the dormitory and boards at the dining hall will find that the necessary cost for a college year (September to June) is about $1,040 in addition to personal expenses.

This expense is distributed as follows:

Annual fees	
Tuition	$450.00
Room rent*	100 to 190.00
Board (34 weeks at $10.50)	357.00
Activities Fee	20.00
Laboratory fees (estimated)	5.00 to 30.00
Books and supplies (estimated)	50.00
Total	$982.00 to $1,097.00
Non-recurring fees, collected in the first year only	
Matriculation fee	$5.00
Induction period fee	5.00

---

*Rent in a Quonset hut is at the rate of $2.50 per week.

Fellowships, Scholarships and Student Aid

In addition to the fellowships and scholarships provided by the University from endowed funds and other sources there are available throughout the United States numerous scholarships and fellowships supported by philanthropic foundations, fraternal organizations or large commercial enterprises. These are frequently awarded competitively on a nation-wide or a state-wide basis.

Many scholarships, especially at the college level, are provided by local sources of various kinds. Any person who is interested in, or dependent on, aid in the form of fellowships and scholarships for the furtherance of his education may find it advantageous to inquire about such offerings from school officials, churches, fraternal organizations, chambers of commerce, etc.

Loans for educational purposes are also available from similar sources.

GRADUATE FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

Graduate fellowships and scholarships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy at Clark University. Appointments are made on the basis of scholarly promise and seniority and on the recommendation of the departments. The number of appointments available in any department vary from year to year. Fellows and scholars are expected to coöperate with the staffs of the various departments, and may by mutual agreement undertake limited responsibilities. They are never called upon to perform services which would interfere with the completion of a full-time program of graduate study.

Teaching fellowships are available in certain departments. These involve a specified amount of instruction with stipends which vary according to the amount of service agreed upon.

Stipends for graduate fellowships are provided by the income of the George Hoar Fund which was given to the University by Andrew Carnegie, and from other special funds.

Assistantships are available in several departments. These positions involve a variety of services with stipends to correspond, and usually provide the student with experience which will be useful in his later professional work.

Appointments to fellowships and scholarships are announced about April first in accordance with an agreement among the members of the Association of American Universities. Assistants may be appointed at any time.

Inquiries concerning any of the above types of appointment should be addressed to the chairman of the department concerned.

STUDENT AID FOR GRADUATE STUDENTS

Student aid is available from the following funds, with the restrictions noted.

The John White Field Fund. This fund of five hundred dollars was established by Mrs. Eliza W. Field. The income is to provide for the minor needs of a scholar or fellow.

The George S. Barton Fund. The income from this fund of five thousand dollars is devoted to aid some one or more worthy native born citizens of the City of Worcester.

The Eliza D. Dodge Fund. The income of this fund of one thousand dollars is granted to graduate students of limited means who are engaged in research work.

The Chester Bland Fund. The income of this fund is preferably used to provide aid to a promising student, either in residence or engaged in research elsewhere under the direction of the department of History and International Relations. It may also be used to defray the expense of visiting lecturers or of departmental research.

The Morton L. "Sonny" Lavine Foundation. The income from this memorial to Lieutenant Lavine of the United States Army, World War II, is to be used in the promotion of research in the Department of History and International Relations. The fund amounts to $1000.

Alumni Association Fund. This scholarship fund for the benefit of students who are studying for the degree of Doctor of Philosophy was provided by alumni who hold that degree.

LOANS FOR GRADUATE STUDENTS

Loans are available for graduate students from the following funds. These loans bear interest at four per cent per year.

ALUMNI LOAN FUNDS. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

THE MARY S. ROGERS SCHOLARSHIP AND LOAN FUND has been able, since its founding in 1926, to care for every need for loans in the Graduate School.

THE SARAH M. THURBER LOAN FUND was established by the late Dr. Charles H. Thurber, former president of the Board of Trustees, as a memorial to his mother. This fund is administered by the president of the university.

UNDERGRADUATE SCHOLARSHIPS

Undergraduate scholarships are generally awarded on the basis of pecuniary need with due regard to character and ability. Such scholarships are provided from a variety of sources and vary in amount. Some of them are restricted to residents of a definite locality, or to those studying particular subjects.

Scholarships are awarded at the beginning of each semester. Ordinarily a scholarship for the first semester will be continued through the second semester if the recipient maintains a scholarship record which places him in the upper half of his class.

To be eligible for a scholarship award an entering student must have had a scholarship average which placed him in the upper third of his class for his course. To be eligible for a scholarship in college a student must have maintained an average in the upper half of his class for the preceding semester.

Applications for undergraduate scholarships should be filed at an early date on forms which may be secured from the college office.

Ellis-Hubley Competitive Scholarship. The sum of $600.00 has been set aside from the income of funds bequeathed in memory of Gordon A. Hubley, Clark 1910, and of Theodore T. and Mary G. Ellis, to establish a special competitive freshman scholarship for male residents of Worcester who have graduated from a Worcester secondary high school. Candidates must be recommended to the Committee on Scholarships by the Principal or Headmaster of the school which the candidate is attending. The award will normally be continued for the four year course. One new scholarship is awarded each year.

The Jonas G. Clark Scholarships, established by the trustees, provide either full tuition or half tuition for undergraduate male and female students from outside of Worcester.

The Theodore T. and Mary G. Ellis Scholarships provide either full tuition or half tuition for male or female residents of Worcester who are students in "the collegiate department of Clark University."

The Sanford Memorial Scholarship Fund, established by alumni of the university in honor of Edmund C. Sanford, president of Clark College from 1909 to 1920, provides an annual scholarship amounting at present to approximately $200 for a male senior undergraduate.

The Livermore and Ambulance Scholarship was endowed by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the first World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is awarded annually on the basis of academic success, character, and usefulness to the college. This scholarship is for male undergraduate students who are residents of Worcester County.

The Henry A. Willis Fund provides scholarships for male students from Fitchburg, Massachusetts, and vicinity. In the absence of suitable candidates from this community grants may be made to others.

THE HELEN BREWSTER RANDOLPH MEMORIAL SCHOLARSHIP FUND, established by the late Professor Charles B. Randolph, provides about $250 annually for scholarships for male college students, preferably those whose "major" is a foreign language.

THE GORDON A. HUBLEY SCHOLARSHIP FUND was bequeathed by Alice B. Hubley in memory of her son, a graduate of the college in the class of 1910. The income is to be used for the assistance of male undergraduates who are residents of Worcester.

THE B'NAI BRITH SCHOLARSHIP, provided by the Worcester Chapter, Order of B'nai Brith, is primarily but not exclusively for the aid of Jewish students.

THE PROBUS CLUB OF WORCESTER offers an annual scholarship of one hundred dollars.

THE HARRY G. FAGER SCHOLARSHIP of the Odin Club is awarded annually to some young man who possesses superior scholarship and personality, has limited means and is of Scandinavian blood. This scholarship, $200, is awarded every other year to a student at Clark University.

THE CLARK UNIVERSITY FACULTY WOMEN'S CLUB offers scholarships to undergraduate students, either men or women, who rank high in intellectual and personal qualities.

THE CLARK UNIVERSITY ALUMNAE ASSOCIATION customarily offers two scholarships to students in the Women's College.

WORCESTER SECTION, NATIONAL COUNCIL OF JEWISH WOMEN, awards a $200 scholarship each year to a Jewish girl from Worcester or Worcester county who is attending Clark.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. Any sums received from this source will be added to the Alumni Loan Fund of the College or to any designated scholarship fund.

UNDERGRADUATE LOANS

Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 4 per cent per year. Interest received from loans is in all cases added to the fund from which the loan was made.

Loans from the funds described below are made to undergraduates by the Dean of the college in coöperation with the Alumni Committee on Loans.

The Alumni Loan Fund is a permanent revolving fund established by the trustees and the alumni. To this has been added a fund of about $500 contributed by L. Kelly Foster, C. B. L. Kelley, Isador Lubin, H. M. Smith, and others.

The Estabrook Loan Fund was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

The Haskell Talamo Loan Fund has been established by relatives and friends of the late Doctor Haskell Talamo, A.B., Clark University, 1916.

The Louis N. Wilson Fund, established by the first librarian of Clark University, is a loan fund for male students in the college.

GRADUATE AND UNDERGRADUATE PROGRAMS

THE GRADUATE SCHOOL

THE GRADUATE SCHOOL OF GEOGRAPHY

THE GRADUATE DIVISION OF INTERNATIONAL AFFAIRS

THE MEN'S COLLEGE (Clark College)

THE WOMEN'S COLLEGE

THE DIVISION OF BUSINESS ADMINISTRATION

The Graduate School

Admission to the Graduate School is open to properly qualified persons, both men and women. Instruction and opportunities for study leading to the degrees of Doctor of Philosophy and Master of Arts are offered in the following subjects:

- Chemistry
- Economics
- Geography
- History
- International Affairs
- Psychology

Work leading to the degree of Master of Arts is also offered in the following subjects:

- Biology
- Education (Master of Arts in Education)
- Physics
- Sociology

Courses of an advanced nature in other subjects may, with the consent of the Graduate Board, be included in the programs of graduate students.

ADMISSION TO THE GRADUATE SCHOOL

Admission is granted only by the Graduate Board on recommendation of a department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work. If he is encouraged by the department to make application, he will receive the application blanks and should submit them to the chairman of the department with an official transcript of undergraduate work, letters of recommendation from two persons who are competent to judge his qualifications, and a recent photograph (passport size preferred).

In addition, applicants for admission to the graduate school are strongly urged, and may be required, to submit a record of attainment in the Graduate Record Examination. This examination tests general knowledge in the field of study covered by the curriculum of the liberal arts college. It is useful as an indication of the general preparation of the student, and as a guide in planning his course of study.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence, never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at a specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for reinstatement.

Admission of seniors to graduate courses. Seniors in Clark College who rank in the upper third of their class may, in exceptional cases, be admitted to courses primarily for graduate students provided petitions for admission are approved by the College Board and the secretary of the Graduate Board.

SCHOLARSHIPS, FELLOWSHIPS, AND STUDENT AID

Scholarships and fellowships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy respectively. Application for a scholarship or fellowship should be made before March first to the chairman of the department in which the applicant expects to do his major work. Applications, after being endorsed by the departments, are acted upon by the Graduate Board.

According to an agreement of members of the Association of American Universities, the elections of fellows and scholars will be communicated on April first, but not before, to each member of the Association and to each successful candidate.

Some fellowships are designated as research fellowships or teaching fellowships, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow.

Assistantships are available in certain departments. Appointments to these positions are usually made from the list of fellows. Application should be made to the chairman of the department.

Stipends for fellows and scholars, other student aid and educational loans for graduate students are provided by the income of special funds which are listed elsewhere under the heading, "Fellowships, Scholarships and Loan Funds."

THE DEGREE OF MASTER OF ARTS

An academic year of full-time study in residence, or its strict equivalent in summer sessions and part-time study, is a minimum requirement for a master's degree. Residence study is broadly defined as graduate work done at Clark University under the immediate personal supervision of at least one member of the university faculty.

A reading knowledge of a foreign language, usually French or German, may be required of candidates for the degree of Master of Arts at the discretion of the major department.

Application for admission to candidacy for a master's degree should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for this degree. Applications will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Paid the diploma fee ($10) and publication fee ($10);
3. Obtained the written endorsement of his major department.

Candidacy for the degree of Master of Arts will, unless extended by action of the Graduate Board, hold good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. When the candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Each student must meet a minimum course requirement of five courses, or their equivalent in half courses. The program must be approved by the major department. One of the courses may be a research course devoted to the preparation of the thesis. The thesis will be written on a topic in the field of the student's special interest under the supervision of a member of his major department. A copy of the thesis, together with two copies of an abstract, both approved by the supervising instructor, must be deposited in the Recorder's office not later than three weeks before the date of the commencement at which the degree is to be conferred. A second copy together with an abstract must be delivered to the major department. The abstract must not exceed 600 words in length. The thesis and one copy of the abstract are deposited by the Recorder in the University Library. Each candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination by a committee of three or more, two of whom must be members of the Graduate Board.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Only such candidates as give evidence of general proficiency, power of investigation, and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

Foreign languages. A prospective candidate for the doctor's degree is advised to prepare himself early for the examinations in the reading of modern foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must pass the foreign language examinations before he will be permitted to take the preliminary examination for the degree of Doctor of Philosophy. These examinations are conducted by a committee composed of representatives of the modern language departments and a representative of the student's major department. The committee reports the results of the examination to the Recorder. Additional language requirements may be imposed by the student's major department.

Admission to candidacy. Applications for admission to candidacy must be filed not later than November first in any academic year, by students who hope to receive the degree at the end of that academic year. An application for admission to candidacy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work (or its equivalent in part-time work), one of which must be at Clark University;
2. Passed the required examinations in foreign languages;
3. Passed a preliminary examination in his chosen fields of study;
4. Paid the diploma fee ($25) and publication fee ($15);
5. Obtained the written endorsement of his major department.

Candidacy for the degree of Doctor of Philosophy holds good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Dissertation. A dissertation which is expected to make an original contribution to some special field of knowledge is required of each candidate.

The dissertation, with comments of the chief instructor and other readers, is laid before the examining committee at the final oral examination.

An abstract of the dissertation, approved by the instructor under whom it was written and not exceeding 1200 words in length, is also required.

Two copies of the dissertation and three copies of the abstract must be provided in a form which is prescribed and each copy must be signed by the chief instructor.

Four weeks before the date of the Commencement at which the degree is to be conferred, one completed copy of the dissertation and two copies of the abstract must be deposited in the office of the University Recorder. This copy of the dissertation and one copy of the abstract are deposited in the University Library where they remain permanently.

At the same time a second copy of the dissertation and a copy of the abstract must be delivered to the major department. These may be retained in the department or deposited in the library for loan purposes.

Final examination. The final examination is oral and lasts for at least two hours; additional written examinations may be given if the major department so directs. The candidate is expected to defend his dissertation and, at the discretion of the examining committee, may be questioned on the entire special field of his study. The oral examination is conducted by a committee of at least four members, including the chairman and one other member of the major department, a member of the Graduate Board under whom the candidate has done no work (unless such a member has participated in the preliminary examination of the candidate), and such other members of the Graduate Board as may be duly appointed. The president of the university is authorized to invite any person from within or without the university to be present and to assist in the examination.

The Graduate School of Geography

SAMUEL VAN VALKENBURG, PH.D., Director of the Graduate School of Geography and Professor of Geography.

RAYMOND E. MURPHY, PH.D., Professor of Economic Geography; Editor, *Economic Geography*.

RICHARD J. LOUGEE, PH.D., Professor of Physiography.

HENRY J. WARMAN, PH.D., Associate Professor of Geography; Secretary of the Graduate School of Geography.

EDWARD C. HIGBEE, PH.D., Associate Professor of Geography.

GUY H. BURNHAM, A.M., Cartographer and Instructor in Geography.

VISITING PROFESSORS AND SPECIAL LECTURERS, 1950-51

CHARLES B. FAWCETT, PH.D., Former Head, Department of Geography, University College, London, England.

JEAN GOTTMAN, PH.D., Professor of Geography, The Institute for Advanced Study, Princeton, N. J.

ERWIN RAISZ, PH.D., Harvard University; Special Lecturer in Cartography.

PRESTON JAMES, PH.D., Syracuse University; Special Lecturer in Latin America.

D. H. G. DOBBY, Professor of Geography, University of Malaya, Singapore.

The Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The map collection, libraries, and special laboratories for cartography and interpretation of aerial photographs, provide unusual facilities for research work in residence. The Staff, composed of specialists in their various fields of geography, must spend part of their time in travel and field studies. A Staff member edits the magazine, *Economic Geography.* While in residence, the Staff members offer regular courses of instruction and direct advanced students in research work. Special lecturers, both American and foreign, supplement the regular Staff. Not all courses of instruction are offered each year; many are given in alternate years. All graduate students are encouraged to undertake independent field studies as part of their university work.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

(Please read statements on "The Graduate School", pages 51-6.)

Work is offered leading to the degrees of Master of Arts and Doctor of Philosophy in Geography. Candidates for the master's degree will pass written examinations in at least six of the following fields: physiography, climatology, soils and land utilization, biogeography, economic geography, human geography and cultural geography, regional geography, and political geography. The oral examination for the master's degree covers four fields approved by the Staff. The master's degree requires two years except for those whose preparation has been adequate enough in fundamentals to enable them to qualify in less time.

Candidates for the doctor's degree in geography will pass written examinations in the above fields, and a general oral examination covering six major fields approved by the staff. This oral examination will be scheduled after the language requirement is fulfilled. In general, a year of work beyond the master's degree should prepare a candidate for the general examination preliminary to his acceptance as a candidate for the doctor's degree and to his concentration work for his dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in biology, economics, history and international relations.

The master's thesis must be submitted to the major professor at least three weeks before it is to be deposited with the Registrar. Doctoral dissertations must be submitted at least four weeks before the Registrar receives the completed copies. The above is necessary since theses must rotate through and receive final approval of all Staff members. Dissertations must be circulated first and then defended.

THE FIELD CAMP

A distinctive feature of the Graduate School of Geography is the autumn field camp of three weeks' duration at the beginning of the fall term. All resident prospective candidates for graduate degrees in geography are expected to attend the field camp each autumn. The field program includes studies in physiography, land utilization, industrial geography and weather observations, with special training in mapping and other field techniques. Cars, scientific instruments and other equipment are provided. Suitable field clothing and blankets must be provided by the individual student. Following return to the campus, about ten days are allowed for completion of field reports. Formal course work begins on the second Monday after the close of the field camp.

Formal course work in geography ends about May 1st, leaving students free to read and to coordinate their work prior to the examination period.

STUDENTS' FEES

All geography students in residence must pay in addition to the general university fees, the camp fee, the workroom fee, and the classroom-materials fee.

The camp fee, determined on a cost basis, varies between $50 and $80, payable to the camp director on or before the first day of camp. For a student taking the field course only, the tuition fee is $25, in addition to the camp fee. The camp fee covers board and lodging, transportation, maps, drafting supplies and the use of meteorological instruments and other equipment for the three weeks' period.

The workroom fee, $5 a semester, is payable to the department November 1st and March 1st. It helps maintain the geography workroom and equipment used by graduate students—alcove desks, files of maps, card catalogue, drafting tables and instruments, and adding machines.

The classroom fee, $5 a semester, is payable November 1st and March 1st to the department. It is for mimeographing and for the maintenance, in part, of the classroom wall maps and other equipment, and for the expense of meteorological materials.

COURSES IN GEOGRAPHY

The following courses were given in 1950-51. The numbers indicate courses as described under "Geography" in the alphabetical list of departments and courses of instruction unless other information is given.

10, 12a, 383a, b	Mr. Warman
16, 36, 361	Mr. Murphy
201, 32, 300, 385b	Mr. Van Valkenburg
18, 314, Map Interpretation	Mr. Lougee
25, 33, 34	Mr. Higbee
191, 291	Mr. Burnham
30. Seminar	Staff
300. Ph.D. Seminar	Mr. Van Valkenburg
399a. Field Studies	Staff
391	Visiting Professor Raisz
27a, b, 385d, British Isles, & India	Visiting Professor Fawcett
29	Mssrs. Warman and Van Valkenburg

Courses in Geography which are to be offered in 1951-52 will be found listed, with descriptions, under "Geography" in the list of Departments and Courses of Instruction.

The Graduate Division of International Affairs

GEOGRAPHY, DIPLOMACY, ECONOMICS

ADMINISTRATIVE COMMITTEE

JAMES A. MAXWELL, *Professor of Economics.*
SAMUEL VAN VALKENBURG, *Director of the Graduate School of Geography.*
DWIGHT E. LEE, *Professor of Modern European History.*

The Graduate Division of International Affairs aims to meet a demand for graduate work which will be devoted entirely to the general field of international affairs and which will include work in geography, history and international relations, and economics. This division groups together appropriate courses and seminars in order to prepare graduate students for the government service of the United States, college and university professorships in international affairs, posts in corporations and banks doing foreign business, and research and administrative positions in the field of world affairs. The courses include offerings in political, regional and economic geography; foreign trade, commerce, and finance; international law; modern and diplomatic history; and the foreign policy and international relations of the United States.

ADMISSION

Qualified graduate students who are interested in International Affairs are admitted either in the Department of History and International Relations or in the Department of Economics and Sociology or in the Graduate School of Geography. Inquiries and applications may be addressed to any one of them.

PROGRAMS

Programs in International Affairs are adjusted to the special interests of the individual students. Programs are arranged in consultation with the staff and require the approval of the committee in charge of the division.

The Men's College

CLARK COLLEGE

The college offers a general program leading to the degree of Bachelor of Arts, and a vocational program leading to the degree of Bachelor of Business Administration.

ADMISSION TO THE FRESHMAN CLASS

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College, Clark University, Worcester 3, Massachusetts. Application for admission should preferably be made either at the end of the junior year or immediately at the end of the first semester of the senior year of secondary school. A deposit of $5.00 is required with the application. This is returned if the applicant is not admitted. No refund of deposit will be made if the applicant is admitted and then fails to register. If the applicant is admitted, this deposit is retained by the University and is credited as the matriculation fee.

An applicant for admission to the freshman class is required to furnish satisfactory character references. He must also furnish his records from all preparatory schools which he has attended. Records of entrance examinations which he may have taken and of action by any other college in respect to his admission are also required. Records of scholastic aptitude tests are of value.

The completion of a four-year high school course or its equivalent, including fifteen acceptable units of credit, is normally required for admission to the freshman class. The term "unit" is understood to mean approximately one-quarter of the pupil's normal program of work for the school year.

The fifteen acceptable units of credit which are required for admission as a candidate for the degree of Bachelor of Arts must include:

Required subjects, 7 units.

English, 3 units (4 years).

*Mathematics, 2 units (algebra and geometry).
†Foreign language, 2 units of a single language.

Restricted electives, 5 or more units chosen from:
- Foreign language, 2, 3, or 4 units. (The college does not accept less than 2 units in any foreign language.)
- Social sciences, 2 or 3 units (history, government, civics, economics, etc.)
- Natural sciences, 2 or 3 units (physics, chemistry, biology, etc.)
- Mathematics, 1 or 2 units (in addition to required units).

Free electives; not more than 3 units, at the discretion of the committee on admissions, in subjects recognized by the applicant's preparatory school in its regular program.

Quality Requirements. Applicants whose references are satisfactory and who are certified in fifteen acceptable units may be admitted without conditions. A principal may also give blanket certification without consideration of specific subjects. In doing so he accepts complete responsibility for the student's success in college.

Applicants who present fourteen certified units and one pass unit may be admitted with *one condition* (see below); applicants who present thirteen certified units and two pass units may be admitted with *two conditions.* No applicant with less than thirteen acceptable units of certified credit or its equivalent will be accepted without examination unless his average grade places him in the highest quarter of the class with which he graduates from high school.

Certificates are accepted from schools in New England on the basis of well established standards which prevail in that region.

A certificate from a school which lies outside New England will be interpreted to mean that the student is prepared to undertake college courses for which the certified subjects are prerequisite. A school will be judged in respect to continued certification privilege on the basis of the college records of the candidates in the certified subjects.

---

*Applicants expecting to specialize in "science" are advised to present at least 3 units of mathematics.

†Normally required.

Entrance Examinations. Applicants who cannot present the necessary number of certified units should arrange in consultation with the Dean of the college to take examinations which are given by the College Entrance Examination Board. The college will determine in each case what constitutes a satisfactory record in such examinations.

A bulletin of information concerning these examinations may be obtained without charge from the College Entrance Examination Board, P. O. Box 592, Princeton, N. J., or, for the far west, from P. O. Box 9896, Los Feliz Station, Los Angeles 27, Calif. Inquiries should be sent to the Board at least one month in advance of the dates of the examinations, which are held Dec. 1, 1951, and Jan. 12, March 15, May 17, and Aug. 13, 1952.

Conditions. Conditions may be in specified subjects which were passed but with less than certificate grade, or may be general, in the latter case indicating some subject deficiency in the candidate's preparation as a whole.

Applicants who are accepted with conditions have an opportunity to free themselves from these conditions before enrolling by satisfactory records in College Board examinations.

Conditions are removed if, at the end of the freshman year, the student has met the scholarship requirements for regular standing, namely, no failures and grades above D+ in three-fourths of the normal credit for the year.

A last chance to remove conditions is offered by College Board examinations after the end of the freshman year and before the beginning of the sophomore year.

Each condition not removed before the beginning of the sophomore year is replaced by an additional requirement for graduation amounting to one-half course.

ADMISSION WITH ADVANCED STANDING

A student who wishes to enter the college after attending another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended, and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally classified as a freshman, sophomore, junior, or senior and will be permitted to register for a program corresponding to this classification. He will not be given a final class rating until he has been in residence for at least one semester.

After a scholastically successful semester in residence he will be given credit for the work done elsewhere to an amount determined at the time of admission by a sub-committee of the College Board.

A graduate of the three year course of the Worcester Art Museum School may be admitted as a candidate for the bachelor's degree with the rank of *junior* in the college. To graduate from Clark, such a student must meet all the usual admission requirements and all the normal course requirements of the college.

The bachelor's degree will not be conferred upon a student until he has spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

THE ACCELERATED PROGRAM

The twelve-week accelerated program offered from 1942 through 1949 was replaced in the summer of 1950 by a term slightly longer than six weeks, yielding a maximum of one course credit.

FACULTY ADVISERS

When a student is admitted to the college he is assigned to a member of the faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel.

FRESHMAN INDUCTION PERIOD

The freshman class of the men's college assembles for an induction period a few days before the beginning of the academic year in September. This period is usually spent at a camp in the vicinity of Worcester and is used to complete certain important preliminaries before the beginning of class work.

A fee of $5 is charged for the induction period.

REGISTRATION

Each student is required to register for a program of studies at or before the beginning of each semester. Due notice of registration periods is given. Failure to register before the end of the periods designated involves a charge of $1 for each day's delay up to a maximum of $5.

Changes in registration may be made, on forms supplied by the Recorder, within a reasonable time after the beginning of the semester.

Freshmen may register for programs of either five or six courses in the first semester. In subsequent semesters programs of six courses are restricted to students whose average grade in all courses for the preceding term has been C+ or better, except in the cases of seniors. A senior whose graduation depends upon the completion of a program of six courses may register for such a program if his average grade for the preceding term has been C– or better.

The designation of a *major subject* is required as part of registration at the beginning of a student's second year in college. This election when once recorded may be changed only with the approval of the Dean. Although the *major subject* is not officially recorded until the student's second year in college, he should plan his program from the beginning with his probable choice in mind.

STUDENT PROGRAM

The curriculum permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies includes a group of courses constituting a *major,* also courses in English, in foreign language, in fine arts or music, and in other courses chosen under regulations intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

For statements regarding courses which may be combined to form a *major,* the announcements of the different departments should be consulted. A number of interdepartmental majors are described in the catalog on pages 89-91.

A regular student normally carries a program of five courses throughout the academic year, September to June, in addition to required work in physical training. In general it is expected that a course meeting three times weekly will require a minimum of two hours of preparation for each lecture or recitation. Laboratory periods are usually three hours in length.

A student carrying the regular program should, therefore, expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in physical training.

Regular attendance at a weekly assembly is required of all undergraduates not classified as part-time or special students.

Instruction is offered in four groups of subjects.

GROUP A (Science and Mathematics). Biology, botany, chemistry, experimental psychology, geology, mathematics, physics, and physiology.

GROUP B (Social Sciences). Economics, education, geography, government, history, international relations, philosophy, psychology, and sociology.

GROUP C (Language and Literature). Greek, Latin, English, French, German, Russian, Spanish, and an interdepartmental course in language and literature.

GROUP D Fine Arts.

The Freshman Program. A first-year student must make up his program entirely from courses designated as "Open to Freshmen."

A candidate for the degree of Bachelor of Arts must include the following courses in his program for the freshman year:

1. English 11.
2. A course in foreign language.
3. A course in group A.
4. A course in group B.
5. An elective. (This course must be Mathematics 11 for students intending to major in group A, including pre-dental and premedical students.)

Candidates for the degree of Bachelor of Business Administration will follow the program outlined under the announcement of the Division of Business Administration.

Any first-year requirements which have not been completed must be included in the program of courses for the second year.

The Program for Undergraduates Other Than Freshmen. Undergraduates other than freshmen may enter any course listed under the heading "primarily for undergraduates" for which, in the judgment of the instructor in charge, they are prepared. Seniors and juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed under the heading, "for advanced undergraduates and graduate students." Undergraduates are not admitted to courses "primarily for graduate" students except in rare cases, and then only after a special vote of the College Board and the approval of the secretary of the Graduate Board.

Regular physical exercise is required of all students, with the exception of veterans, for the general promotion of their health and mental efficiency. Physical training is scheduled at times which avoid conflict with recitation hours. *Students are usually excused from this requirement only on the recommendation of the medical director.*

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

All college regulations involving a quantitative statement of credit are expressed in terms of courses.

A course as a unit of credit normally implies three or four class meetings or laboratory exercises per week throughout two semesters and constitutes one-fifth of a student's normal program. Where departments offer fractional courses, these will be combined in reckoning a student's total credit in courses. Students admitted to classes primarily for graduate students receive credit of one-half course per semester irrespective of the number of class meetings.

A student in good standing in the college will be recommended for the degree of Bachelor of Arts whenever he completes all of the following requirements, unless in the judgment of the College Board there is cause for withholding this recommendation:

1. *Residence.* Not less than three academic years of college study

in residence. At least one full year and usually the last year before the degree is conferred must be spent at Clark University. A year in residence signifies the satisfactory completion of five year courses at Clark University.

2. *Course requirements.* Twenty courses in addition to required physical training, *except in the case of veterans who are eligible for benefits under Public Laws 16 or 346 as amended by Public Law 268.* Such veterans will normally be graduated on the completion of nineteen courses, credit for the twentieth course being granted for military service and miscellaneous training in service.

   A satisfactory scholarship record must be maintained throughout the entire program.

3. *Physical training.* Three years of physical training, two hours per week. Veterans who have completed the basic training for any branch of military service and those who served in the Merchant Marine are excused from the requirement in physical training.

4. *Assembly.* Attendance at a weekly assembly is required.

   Requirements 3 and 4 are in addition to the course requirements as stated above.

5. A *major,* i.e. seven courses, approved by the student's major department. Except in the case of interdepartmental majors, four or five of these courses must be in a single department, the remaining must be in fields related to this department.

   Of the fourteen semester grades recorded in a student's major, at least eleven must be C or better.

   The following interdepartmental majors are offered:

   International Relations
   English History and Literature
   American Civilization
      a. American Arts and Letters
      b. Problems of American Society

   Information concerning the requirements in interdepartmental majors may be received from the instructor in charge of each. Mathematics is a requirement in the freshman year for a student who intends to major in group A, including pre-dental and pre-medical students. This course may, with the approval of the major department, be included in the seven courses constituting the major.

Students majoring in Group C who have not offered at least two units of Greek or Latin for admission are required to take a year's course in either classical civilization or elementary Greek or Latin. A choice between civilization and language is subject to the approval of the major department. If the language course is elected, this requirement should normally be satisfied during the freshman year. The course satisfying this requirement may, with the approval of the major department, be included in the seven courses constituting the major.

6. *English.* (a) English 11, or its equivalent; a requirement in the freshman year for all candidates for the degree of Bachelor of Arts.

   (b) An additional half course in English literature, composition or public speaking.

   (c) Satisfactory proficiency in the use of English.
7. *Fine Arts.* A half course chosen from the following list: Fine Arts 11, 12b, 13b, 191a, 192a; Music 12, 13, 15; French 113; German 141; Greek 123a; Latin 123b.
8. *Foreign language.* (a) One course in foreign language, required in the freshman year.

   (b) One course in a foreign language at or beyond the level of third-year college courses in that language. This requirement may be met by the course required in the freshman year.
9. *Group A.* Two courses—either two courses in a single field of study, or one course in each of two fields. These courses may not be distributed between more than two fields of study. One of them *must* be a laboratory course.

   Courses in the history of the sciences are not counted toward the fulfillment of this requirement.
10. *Group B.* Two courses—either two courses in a single field of study, or one course in each of two fields. These courses may not be distributed between more than two fields of study.

GRADING AND SCHOLARSHIP

At the end of each term a final grade—in terms of A, excellent; B, good; C, average; D, poor; F, failure—is reported for each course. The modifying symbols plus (+) and minus (–) are used to indicate variations within each general classification. A report of incomplete is permitted only when severe sickness or some equally unavoidable circumstance prevents the completion of a course. Failures may not be made up, except by repeating the course.

Courses with grades of D+, D or D– may not be counted toward a bachelor's degree beyond one-quarter of the total credit required; i.e., not more than five (5) such courses, or their equivalent in fractional courses, may be counted. If grades are not given in some of the twenty courses required for the degree, the maximum credit which may be counted with grades of D+, D or D– is reduced to one-quarter of the total credit from courses in which grades are given.

PROBATION

Students with unsatisfactory grades are placed on probation. Failure of a student to remove himself from probation at the end of the semester following two consecutive terms or three non-consecutive terms normally results in separation from college. Details concerning probation are published elsewhere.

CLASSIFICATION OF STUDENTS

A student continues to be ranked within the class in which he enters until the end of the third or junior year, at which time he will be classified as a senior only when he has credit of at least twenty-eight passing semester grades of which at least eighteen semester grades are C– or better. The Dean is empowered to classify transfer and special students when necessary.

COMPREHENSIVE EXAMINATIONS

The faculty has voted to set up a program of Comprehensive Examinations for the A.B. and the B.B.A. degrees. These examinations, which will come in the spring of the senior year, will test the student's knowledge of his major subject as a whole. They will not duplicate the individual course examinations which he has already taken but will be designed to determine whether he has integrated his courses and has acquired a mature understanding of his subject.

The Comprehensive Examinations will be given for the first time in the spring of 1953. They will consist of at least four hours of written work plus a possible oral or laboratory examination. Students who do not pass the Comprehensive Examinations will be entitled to one re-examination during the following academic year, but no student will be given a third examination except by express permission of the College Board. The Comprehensive Examinations will very likely be required in most majors though the decision to give Comprehensives will be left to each department; as soon as possible, students will be informed which departments will demand the passing of Comprehensive Examinations for graduation.

GENERAL HONORS

First honors and *second honors* are awarded annually to members of each class who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

The bachelor's degree is awarded *with honor, with high honor,* and *with highest honor* to members of each graduating class whose records, in the judgment of the College Board, warrant this distinction.

DEPARTMENTAL HONORS

An honors program, leading to the degree of Bachelor of Arts *with honors in a particular department,* may be undertaken by a member of the junior class if his cumulative scholarship average places him among the highest third of his class. This plan permits an able student in coöperation with his honors' adviser, to organize the work of his junior and senior years into a unified program which may include a certain number of honors courses. In these he works with a considerable measure of independence under the supervision of his honors adviser. A maximum of two honors courses may be included in the program of any candidate for departmental honors. In the senior year each candidate must pass satisfactorily comprehensive examinations given by his major department.

Application for honors work should normally be made in writing to the major department not later than the first day of May of the sophomore year.

Admission to candidacy for departmental honors does not relieve a student from any of the standing regulations of the college except as specifically stated above. If a student's candidacy for honors is terminated for any reason, the amount of credit, if any, to be allowed for special honors courses will be determined by the College Board in consultation with the major department.

An honors student must withdraw from his candidacy at the end of any semester in which he has not maintained a non-cumulative standing in the upper half of his class.

SCHOLARSHIP SOCIETY

The Clark Scholarship Society was organized in 1914. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the society." Membership in the society is open to members of the faculty. Student members are elected at the end of the junior year. The selection is made from students with highest standing in the junior class. Nominations are made by the College Board and the undergraduate members of the society elect from the students so nominated. Additional nominations may be made at the middle and end of the senior year.

ABSENCES

Regulations applying to absences from scheduled class meetings and laboratory exercises are based upon the conviction that such absences, regardless of their cause, involve a loss to the student and a drag upon the class. Students are, accordingly, expected to be consistently regular in attendance. Subject to this general provision, students are given a considerable degree of freedom in the control of their attendance. It is expected that such freedom will not be abused, and that it will contribute to the growth of each student's sense of responsibility.

Detailed regulations in harmony with the foregoing principles are posted on the official bulletin board for the guidance of students. They are also published in the Students' Handbook, issued annually. Students are expected to familiarize themselves with these regulations.

Special regulations apply to attendance at the weekly assemblies and physical training.

EXTRACURRICULAR ACTIVITIES AND STUDENT LIFE

Student life at Clark is, as would be expected at a small institution, friendly and informal. Fixed rules and regulations are few, the assumption being that students will conform to the recognized standards of morality, good order, and gentlemanly conduct. College activities are, however, under sufficient faculty oversight to insure responsibility in business dealings and consideration of the welfare of the individual student and of the college community.

The Activities Fee. Athletics and several non-athletic activities are partially supported by an activities fee. This fee admits a student, without additional charge, to all athletic contests held on the college grounds, provides him with the college newspaper, and admits him to plays and concerts presented by the dramatic and musical clubs.

Activities. Students in Clark College have the opportunity to participate in intercollegiate soccer, baseball, tennis, basketball, fencing and crew. A competent coach has immediate supervision over the athletic teams. General supervision of the athletics program is vested in the Committee on Athletics, consisting of the Director of Physical Education, the faculty Committee on Athletics, and the Athletic Council.

In addition to intercollegiate athletics, a steadily increasing intramural program gives opportunity for widespread participation in games and contests of various sorts.

Opportunities for recreation, outside of athletics, are found in dramatic clubs and musical clubs, under expert direction; in editing and publishing the college newspaper (*The Scarlet*) and the senior yearbook (*The Pasticcio*); also in such organizations as the Debating Club and International Relations Club. Gryphon, the senior honorary society, plays an important part in campus life. Non-athletic activities are under the supervision of faculty advisers.

Formal proms, informal Bohemes and fraternity activities furnish further opportunities for social life. One of the University buildings houses the Student Union. For many students, the most prized opportunity for social contacts is in the offices and laboratories, where members of the faculty may be visited with ease and freedom.

Eligibility for Competitive Activities. Participation in organized extracurricular competitive activities is denied only when a student's scholastic record indicates that continuance in an activity might be responsible for scholastic failure. A student is eligible if he is enrolled in a regular program of five courses and if at the end of any half term he has (a) passed in all courses and been graded at least C– in one of them, or (b) passed in all but one course and been graded at least C– in two of them.

Any student carrying less than a full program of studies is ineligible unless his reduced program permits graduation at the end of the year in which that program is carried.

Ineligibility becomes effective the eleventh day after the beginning of a half semester and continues through the tenth day of the succeeding half semester.

Students admitted with advanced standing from another college are ineligible during the first half semester of residence at Clark College.

A special student is normally not entitled to participate in competitive activities of the college. The College Board may, however, permit such participation in the case of a special student who is enrolled for a full program (five courses).

Eligibility for Non-competitive Activities. All students may participate so long as their scholarship proves satisfactory. Details are published in the Students' Handbook.

The Women's College of Clark University

ADVISORY BOARD FOR THE WOMEN'S COLLEGE

Mrs. Robert Goddard,
Chairman
Mrs. John D. Peabody,
Vice Chairman
Mrs. William F. Holland,
Secretary
Mrs. Philip M. Morgan
Mrs. Aldus C. Higgins
Miss Mary N. Allen
Mrs. Arthur Lowry
Mrs. Loring H. Dodd
Mrs. Saul A. Seder
Mrs. Daniel W. Lincoln
Mrs. Ralph E. Duffy
Mrs. Bancroft C. Wheeler
Miss M. Hazel Hughes

FOR THE ALUMNAE

Miss Elizabeth A. Rourke
Miss Elizabeth S. McManus
Mrs. Paul J. Connolly
Mrs. James J. Redican,
ex officio

FOR THE FACULTY WOMEN'S CLUB

Mrs. Vernon Jones
Mrs. Jesse L. Bullock
Mrs. Charles T. Bumer
Mrs. Raymond E. Murphy,
ex officio

The Women's College of Clark University was established in the fall of 1942 for the benefit of young women who wish to attend college in Worcester.

All courses of instruction available for men are open to women. The requirements for admission and for a bachelor of arts degree are identical with those for men, and the same tuition and fees are charged. (See earlier section of this catalogue, where requirements and fees are dealt with in detail.)

Undergraduate women who do not commute from their own homes are expected to live in one of the women's dormitories. If other arrangements are desired, written request from a parent or guardian must be sent to the Dean's office and the Dean's approval must be obtained.

Suitable provision has been made for the comfort and convenience of women students while on the campus. A large room on the first floor of Jonas G. Clark Hall, attractively decorated and comfortably furnished, is used by the women as a lounge and as a center for their activities. They also have gymnasium and luncheon room facilities.

The general supervision of the activities of women students is in the hands of Miss M. Hazel Hughes, Associate Dean for Women. The Women's College has an Advisory Board composed of representative Worcester women as well as representatives from the Alumnae and Faculty Women's Club who are interested in the educational program, and who advise the administration on matters of general policy and social affairs.

ATHLETICS

Women students use their own gymnasium for practice but have the use of the university gymnasium for games with outside organizations. All students are given a physical examination at the beginning of each year by the medical director for women who lives in the neighborhood and is readily available for resident students.

Several types of athletics are open to women. In the fall and spring hockey, crew, archery, tennis, and golf are conducted outdoors. Tournaments are held in sports in the spring and fall and a cup is awarded to the winner of each event. During the winter months although basketball is the principal organized athletic activity, volley ball and badminton are also offered.

There is a physical education program, designed to improve posture and general health. Attendance at classes in physical education is required twice a week for the first two years. Training in a group sport and an individual sport is required during the junior year. Swimming and life saving courses are available through the entire year by arrangements with the Young Women's Christian Association. These courses are conducted by a member of the Physical Education Staff of the University.

Students receive free tickets to all athletic events.

STUDENT ACTIVITIES

The Women's College and the Men's College have a combined student body. The women students are eligible for all offices and participate a great deal in the planning of student body activities.

Women students have many of their own organizations but also may join many of the organizations of the men's college. They serve on *The Scarlet*—the college newspaper, *The Pasticcio*—the college yearbook, and are eligible for membership in the debating society and glee club. The women students participate in the dramatic productions, both in acting and in assisting with stage settings and costumes. The girls are represented on the "Boheme Committee" which plans the college dances and on the Student Activity Fund Committee.

INDUCTION PERIOD

The freshman class of the women's college and all women transfer students assemble at the college on Wednesday before the opening of the academic year to become acquainted and to complete various important preliminaries before the beginning of class work. If conditions warrant, the induction period is spent at some suitable place in the country, not too far from Worcester.

A fee of $5.00 is charged for the induction period.

ADMISSION AND SCHOLARSHIPS

As stated above, requirements for admission are outlined in detail in an earlier section of this catalogue. In addition to admission to the freshman class, admission to the upper classes by transfer from other colleges is possible.

For scholarship aid to women the Trustees each year make a special grant, varying in amount with the established need.

The Clark University Women's Club and the Clark University Alumnae Association each offer two scholarships. The Swedish National Federation has a scholarship awarded annually to a deserving student of Scandinavian stock from Worcester or vicinity. The Soroptimists Club of Worcester has provided a scholarship for a woman student. Other special awards have been made possible by friends of the college.

Correspondence regarding admission and requests for application blanks should be addressed to:

DEAN OF THE COLLEGE, CLARK UNIVERSITY, 950 MAIN ST.,
WORCESTER (3), MASS.

The Division of Business Administration

ORGANIZATION

ARTHUR F. LUCAS, *Director of the Division*

ADMINISTRATIVE COMMITTEE

PRESIDENT HOWARD B. JEFFERSON, *ex officio*

ARTHUR F. LUCAS, *Chairman*
JOHN E. BELL
GEORGE E. HARGEST
HOMER P. LITTLE
JAMES A. MAXWELL
RAYMOND E. MURPHY

BUSINESS ADMINISTRATION ADVISORY COMMITTEE

W. ROBERT BALLARD, JR., *Vice-President,*
John C. MacInnes Company
DONALD W. CAMPBELL, *Treasurer,*
State Mutual ~~Insurance~~ Company Life Assurance
F. HAROLD DANIELS, *President,*
Riley Stoker Corporation
C. LANE GOSS, *President,*
Worcester County Institution for Savings
ALBERT PALMER, *Vice-President,*
Crompton & Knowles Loom Works
HIRAM RASELY, *Executive Vice-President,*
Burdett College
JACOB REED, *Senior Partner,*
Reed & Company
WILLIAM SAWYER, III, *President,*
W. H. Sawyer Lumber Company

The Division of Business Administration is an integral part of the undergraduate college of Clark University. Its administration is the responsibility of the Director under the supervision of the Administrative Committee of the Faculty.

The program in Business Administration is given coöperatively by the Departments of Economics and Sociology, English, Geography, History and International Relations, Mathematics and Psychology.

THE PROGRAM IN BUSINESS ADMINISTRATION

The Division of Business Administration offers a four-year program of studies designed to prepare young men and women for careers in business. Students electing this program should enroll as candidates for the degree of Bachelor of Business Administration and must meet the specific requirements for this degree. Students in the Business Administration program are entitled to all privileges of the University which are open to undergraduates, including the right to elect undergraduate courses in other fields such as social studies, language, fine arts and science.

The business program is designed to provide an opportunity for the student to become acquainted with the basic characteristics of modern industry and commerce, to acquire an understanding of the general principles of business and to receive training in the techniques common to all successful business enterprises. It should assist the student in adapting himself to general business requirements and in relating his specific job to the entirety of business and industrial enterprise as well as in perfecting his skill in particular techniques.

The program consists of carefully selected courses in arts and sciences together with specialized courses of particular interest to students of business. Among the former are basic courses in English composition, mathematics, economics, psychology, and government. Among the latter are courses in accounting, finance, managerial techniques, statistical methods, merchandising, and business law. Training in the analysis of administrative problems is emphasized throughout the program.

In addition to the program leading to the degree of Bachelor of Business Administration, the College offers a less intensive program in Business Administration for candidates for the degree of Bachelor of Arts. Students taking this program should major in the Department of Economics and Sociology. They must meet all the requirements for the degree of Bachelor of Arts including those in English, fine arts, foreign languages and sciences. First year students should take the normal college program for freshmen and should elect Business Administration 10 for the Group B requirement. The program for the second year should include Business Administration 117 and Economics 11. In the third and fourth years students should elect at least two basic courses in economics, such as Economics 13, 21, 22 or 207, and at least four courses in business administration. The following are recommended: Business Administration 16, 18, 124, 20, and 127.

Students should note that the following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 13, 14b, 17, 109, 128, 129a, 181a, 182b, 23a, 23b, 227, 237.

HONORS PROGRAM IN BUSINESS ADMINISTRATION

An integral part of the business program is the work leading to honors in business administration. In accordance with the rules of the faculty, students in the upper third of their class may become candidates for honors. While pursuing this program they substitute special honors courses for not more than two regular year courses. Honors courses consist primarily of individual work under the personal guidance of a member of the business staff. At the end of the senior year, candidates take a comprehensive examination, which if sustained leads to the granting of honors in business administration.

ADMISSION

Applicants for admission to the freshman class in the Business Administration program are accepted on the same basis as other applicants for admission to the college except that the secondary school units presented for admission may be distributed as follows:

Required subjects	8 units	*Elective subjects*	7 units
English	3 units	(of which as many as 3 units may be in commercial subjects)	
Mathematics (algebra)	1 unit		
†Foreign Language (one language)	2 units	Total	15 units
Social studies	2 units		

† Normally required.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

The Freshman Program

A uniform program is normally required of all freshmen. It includes the following courses:

First Semester		*Second Semester*	
Eng. 11a	Composition	B.A. 14b	Business English
B.A. 10a	Elements of Distribution	B.A. 10b	Elements of Production
B.A. 117	Principles of Accounting	B.A. 117	Principles of Accounting
B.A. 13a	Business Mathematics	B.A. 13b	Business Mathematics
	An elective		An elective
	Physical Training		Physical Training

Additional Course Requirements

Additional courses required of all candidates for the degree of Bachelor of Business Administration are:

B.A. 16	Business Statistics
B.A. 17a	Public Speaking
B.A. 18	Business Organization and Finance
B.A. 20	Business Law
Econ. 11	Principles of Economics
*Econ. 13	Money and Banking
Govt. 15	Introduction to Government

* Under special conditions Economics 13 may be replaced by certain other courses in economics.

Areas of Concentration

At the end of the sophomore year, each candidate for the degree of Bachelor of Business Administration must submit to his faculty adviser an integrated program of studies covering the junior and senior years. A proposed program should indicate the student's areas of special interest and the specific courses he intends to elect. Ordinarily no program will be approved that does not include in addition to the required courses named above, at least five courses in Business Administration or closely related subjects. Typical of these integrated programs are the following:

Accounting

- Intermediate Accounting
- Cost Accounting
- Auditing
- Advanced Accounting
- Industrial Management
- Federal Tax Accounting

Finance

- Business Organization and Finance
- Money and Banking
- Public Finance
- Business Cycles
- Analysis of Business Problems

Foreign Trade

- Principles of Marketing
- International Economics
- Economic Geography
- Industrial Psychology
- A foreign language

Management

- Intermediate Accounting
- Analysis of Business Problems
- Industrial Relations
- Industrial Management
- Office Management
- Industrial Psychology

Marketing

- Principles of Marketing
- Salesmanship
- Advertising
- Market Research
- Sales Management
- Industrial Psychology

Personnel Management

- Industrial Psychology
- Personnel Management
- Industrial Management
- Industrial Relations
- Labor Problems

GENERAL UNIVERSITY REQUIREMENTS

Candidates for the degree of Bachelor of Business Administration are subject to the same general University and College regulations as apply to candidates for the degree of Bachelor of Arts except as these are modified by the special requirements of the business program.

COURSES IN BUSINESS ADMINISTRATION

Courses in Business Administration will be found listed with descriptions under "Business Administration", Pages 103-6.

PROGRAMS AND COURSES OF INSTRUCTION

BIOLOGY
BUSINESS ADMINISTRATION
CHEMISTRY
CLASSICS
ECONOMICS AND SOCIOLOGY
EDUCATION
ENGLISH
FINE ARTS
FRENCH
GEOGRAPHY
GEOLOGY
GERMAN
HEALTH EDUCATION FOR UNDERGRADUATE WOMEN
HISTORY AND INTERNATIONAL RELATIONS
MATHEMATICS
PHILOSOPHY
PHYSICS
PSYCHOLOGY
SPANISH

Programs and Courses of Instruction

Departments, and in some cases important subdivisions of departments, are listed alphabetically in the following pages.

Departmental announcements precede the lists of courses which are offered by the departments. These announcements contain important general information, as well as departmental regulations concerning graduate work and statements of the requirements for undergraduate majors.

Courses are, in general, arranged in sequence under each heading so as to progress from the more elementary to the more advanced. Each course is described as it has been given during the current academic year unless an accompanying note states otherwise. Notice is given in all cases where a department plans to alter the content of the course, or to omit it. If a course is not currently given but will be offered at a later date this fact is stated.

The unit of instruction for undergraduates is a "course." A course normally meets for classroom or laboratory exercises three or four times weekly throughout the regular academic year (September to June) and constitutes one-fifth of the normal program for an undergraduate.

Each unit of undergraduate instruction as listed below yields credit for one half-course in each semester unless its value as a fractional course or a multiple course is indicated.

Advanced courses, not primarily for undergraduates, are announced with a statement of the number of weekly meetings.

Fractional credit is given for the satisfactory completion of one semester of work in any course unless the course is designated as indivisible. Courses primarily for graduate students yield full half course or full course undergraduate credit irrespective of the number of class meetings.

With the consent of the instructor, a course may be entered at the beginning of either semester.

Courses are classified under three headings as follows:

1. Primarily for Undergraduates, designed by numbers beginning with the figure "1."

2. For Advanced Undergraduates and Graduate Students, designated by numbers beginning with the figure "2."

3. Primarily for Graduate Students, designated by numbers beginning with the figure "3."

Interdepartmental Majors

In order to provide opportunities for study in certain fields intrinsically worthwhile culturally or professionally, which afford a somewhat greater breadth of choice than strictly departmental programs, yet possess unity in content and purpose, the faculty has authorized certain interdepartmental majors. It will be noted that eight or more courses may be required for such a major.

I. INTERNATIONAL RELATIONS

Freshman and Sophomore Years

G. E. 14—Europe and the United States since 1500
Economics 11—Principles of Economics
Geography 10—Principles of Geography

Junior and Senior Years

Government 24—International Relations
Government 241—International Law and Organization
Geography 201—Political Geography
Two courses in economics to be approved by the instructor in charge, to include if possible Economics 207, International Economics; Economics 205, Economic Theory; or Economics 26, Government and Industry.
Senior Seminar—Group study of selected problems in contemporary world affairs.
Instructor in charge: Professor Hayden

II. ENGLISH HISTORY AND LITERATURE

Freshman Year

G. E. 14—Europe and the United States since 1500

Sophomore Year

History 12—History of England
English 15a and b—Survey of English Literature, from the beginning to 1832.

Junior and Senior Years

History 221—England Since 1760
English 15c—Survey of English Literature, from 1832 to the present (first semester)
Philosophy 12—History of Philosophy
English 10b—Chaucer
English 13b—Shakespeare (or English 147b—Oral Interpretation of Shakespeare)
English 14b—Elizabethan Drama
English 104—Seventeenth Century with special emphasis on Milton
English 105—English Literature of the Eighteenth Century
English 117a—English Romantic Poetry
English 126a—Modern British and American Drama
English 142a—The English Novel
six half-courses

Instructor in charge: Professor Anderson

III. AMERICAN CIVILIZATION

Freshman Year

G. E. 14—Europe and the United States since 1500

Sophomore Year

Government 15—Introduction to Government
Economics 11—Principles of Economics
Sociology 11—Principles of Sociology or History 130a

Junior and Senior Years

History 230—Social and Intellectual History of the United States
English 111—Survey of American Literature

Sociology 12a—Cultural Anthropology	Two and one-half courses
Philosophy 12—History of Philosophy	
History 232—American Constitutional History	
History 234—American Diplomatic History	
History 235—The U. S. in the Twentieth Century	
Government 251a—American Political Parties	
Sociology 22b—Race and Nationality	
Sociology 25—Social Institutions	
Economics 231—Economic History of the United States	

Other courses in Economics may be chosen with the approval of the instructor in charge.

Instructor in charge: Professor Campbell

General Education

Courses in General Education were inaugurated as a separate group in the year 1950-51. They are distinguished from the courses of departments rather by viewpoint and tone than by content. They aim to stimulate the student to intelligent and critical interest in fields of culture where he has no expectation of attaining professional competence; to create an understanding of the basic unity of knowledge and thought; and to offer the student the opportunity to obtain a core of information, ideas, and vocabulary that he will have in common with many of his contemporaries. General Education courses are thus not a part of pre-professional or pre-vocational education, are outside the sequence of courses in a student's major, and are not subject to prerequisites. However, they do fulfill the distribution requirements in the Natural Sciences, the Social Sciences, and English, according to the field in which they fall.

General Education is under the supervision of a Committee reporting to the Academic Council. The present Committee comprises Messrs. Jordan (Chairman), Cohen, Reid, and Roope.

G.E. 10 (formerly PHYSICS 10) AN INTRODUCTION TO PHYSICAL SCIENCE. This course will cover fundamental and outstanding developments of both classical and modern physics and will include selected topics from chemistry and astronomy. The methods and procedures of science as exemplified by physics will be emphasized, and considerable attention will be given to historical background and the effect of science on man's thought and life. Although students will be required to carry out a series of selected experiments, some of the laboratory periods will be devoted to demonstration, discussion, criticism, and evaluation; and no attempt will be made to develop competence in laboratory techniques.

Group A course, open to freshmen. Primarily for non-science majors.

Through the year. M. W. F., 10; Tu., 2. MR. ROOPE

G.E. 14 (formerly HISTORY 10) EUROPE AND THE UNITED STATES SINCE 1500. Approaching an understanding of the modern world by a consideration of the history of western Europe and America since 1500, this course will stress the origin and development of problems and situations in the political, economic, and intellectual fields.

A fee of $1 is charged for supplies and duplicate library copies of books.

Group B course, open to freshmen. Meets the requirements of History 10 for majors in certain departments.

Through the year. Tu. Th. S., 9. Mr. Jordan, First Semester; Messrs. Lee and Campbell, Second Semester. Assisted by Messrs. Osgood and Simmons.

G.E. 17 (formerly English 17) Great English and American Writers. Unlike English 15, which tries to present a comprehensive view of the whole field of English literature from *Beowulf* to the present, this course will focus the attention on six or seven major writers in each semester. The emphasis will be placed, not on tracing literary movements or on studying literary problems *per se,* but on showing what these great figures have to say that is of interest or importance to the general reader today. Since at least two weeks will be spent on each author, the student will have a chance to determine the attitude toward life of each man, to see what gave rise to that attitude, and to evaluate it and compare it with the views of other writers treated in the course. Chronology as well as other purely factual material will be kept to a minimum.

Meets requirement for third semester of English. Open to sophomores, juniors and seniors. *May not be counted for credit with English 15.*

Through the year. Tu. Th. S., 10. Mr. Carter, First Semester; Mr. Anderson, Second Semester.

G.E. 18 (formerly L.L. 13) Literature and the Nature of Man. This course is designed to serve the interests of the general student rather than the interests of the literature or language major, but it is open to all students above the freshman level. Great works from Classical, German, French, Scandinavian, and English literature will be studied, in translation, with a view to developing an area of knowledge and experience which educated men and women have in common with the eminent creative artists of our Western civilization, and with a view to helping students understand basic problems and humane attitudes that are both constructive and creative.

Meets requirement for third semester of English but not the Fine Arts requirement. Open to sophomores, juniors, and seniors with the consent of the instructors.

Through the year. M. W. F., 12. Messrs. Anderson and King

G.E. 110 (~~formerly Mathematics 110~~) Fundamental Concepts of Elementary Mathematics. The subject matter of this course will be exposed in terms comprehensible to students with no formal training in mathematics at the college level. It is hoped that the course will show the student how the abstract and general ideas of mathematics have implications for other fields of learning.

Group A course, open to juniors and seniors only.

Through the year. Tu. Th. S., 11. Mr. Bumer

DEPARTMENT OF BIOLOGY

Professor Potter, Associate Professor Nunnemacher
Assistant Professor Blair

The biological laboratories are well equipped for the courses offered and contain special equipment for advanced investigations. Funds are available annually for the purchase and building of apparatus which may be required. The university library contains complete files of the more important periodicals and reference works. The department maintains an herbarium of over 40,000 sheets. Certain assistantships, fellowships and scholarships are available from time to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the department, except Biology 19a.

An undergraduate majoring in biology must complete Biology 11 and three advanced courses in biology, Chemistry 11, Physics 11, Mathematics 11, and at least one additional course in chemistry, physics or geology. Mathematics 11 does not count towards the fulfillment of the major requirements.

A candidate for honors in biology must also take Biology 11, 12, 14 and 240.

Courses in related fields include all courses in Group A and Psychology 203 and 212.

THE PRE-MEDICAL PROGRAM

Clark University is justly proud of its pre-medical training program. Not only do our better students have little difficulty in entering the best medical schools, but they usually rank in the upper half of their medical school classes and become respected and outstanding physicians.

The student entering upon the pre-medical program must be prepared to compete with other college students of above-average ability; he must be of good health and capable of sustained hard work; he must like and get along well with all kinds of people and he must have a real desire to help the sick and advance the science of medicine. The pre-medical student must be prepared to undertake a program of intensive study which usually takes eight years before the medical degree can be obtained. During this time the large amount of class and laboratory work reduces considerably the opportunities for earning money through outside work.

While the requirements for the Bachelor of Arts degree assure each graduate familiarity with several fields of learning, the pre-medical student should take as many non-science courses as possible to round out his general education, because medical school programs leave no time for courses outside of their technical field. Courses in psychology and human relations will be of particular benefit.

The field of medicine is open equally to men and women.

The following programs are recommended for pre-medical students with a major in biology. Program A places the emphasis on biology; Program B places the emphasis on chemistry.

Program A

First year
- English
- Foreign Language
- Mathematics
- General Biology
- Group B (one course)

Second year
- Biology 12
- General Chemistry
- Foreign Language
- Group B (one course)
- ½ course in English and ½ course Fine Arts

Third year
- Biology 220, 221, 18 (Any two)
- Chemistry 13a and 14b
- Physics 11
- Two electives

Fourth year
- Biology 240
- Chemistry 15
- Three electives

Program B

First year
- English
- Foreign Language
- Mathematics
- General Chemistry
- Group B (one course)

Second year
- Chemistry 13a and 13b
- Chemistry 14a and 14b
- General Biology
- Foreign Language
- Mathematics 12

Third year
- Chemistry 15
- Biology 12
- Physics 11
- Group B (one course)
- ½ course (elective)

Fourth year
- Chemistry 19
- Biology (advanced)
- ½ course in English and ½ course Fine Arts
- Two electives

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts.

COURSES IN BIOLOGY

During the academic year 1950-51 the following courses were given: 11, 12, 13, 14, 18, 201, 205, 220, 221, 224, 240, 241, 242, 260, 300, 320, 340, 341, 350 and 360.

1. PRIMARILY FOR UNDERGRADUATES

11. GENERAL BIOLOGY. An introduction to the fundamental principles and problems of biology.

Divisible course upon approval by the department.

Open to freshmen.

Through the year. M. W. F., 9; M., 2.

MR. POTTER AND MR. NUNNEMACHER

12. COMPARATIVE ANATOMY. A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals.

Lectures and laboratory work.

Through the year. W. F., 10; Tu. F., 2. MR. NUNNEMACHER

13. SEMINAR IN GENERAL BIOLOGY. Credit is not given for this course. All students in the department are invited to attend and to participate. STAFF OF THE DEPARTMENT

14. BOTANY. First semester, morphology and taxonomy of the lower plants. Special emphasis is given to the algae and fungi.

Second semester, systematic botany of the higher plants with special emphasis on our local flora. A collection of one hundred plants is required, also a spring program of laboratory work in the field of at least three days' duration.

Either semester of the course may be elected separately.

Prerequisite: Biology 11, first semester.

Through the year. M. W.F., 1; Th., 2. MR. POTTER

15. INVERTEBRATE ZOOLOGY.

Omitted 1950-51.

18a. GENETICS. An introduction to the principles of genetics.

Half course. First semester. M. W. F., 11. MR. POTTER

19a. HUMAN ANATOMY AND PHYSIOLOGY. An introductory semester course. Does not require Biology 11 as a prerequisite but requires Biology 11 to be counted towards the Group A requirement.

May not be counted toward the fulfillment of the requirement for a major in Biology. Three lectures per week.
Omitted 1950-51. MR. NUNNEMACHER

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

201. ADVANCED SYSTEMATIC BOTANY. Through the year. Three laboratory periods and one lecture per week. Either semester may be taken separately. MR. POTTER

202. ECONOMIC BOTANY.
Omitted 1950-51. MR. POTTER

204b. BACTERIOLOGY. An introduction to the study of bacteriology.
Half course. Second semester. M. W. F., 11. MR. POTTER
Omitted 1950-51.

205. ADVANCED GENETICS.
Three lectures per week.
Half course. Second semester. MR. POTTER

219. ENTOMOLOGY. Fundamentals of insect life.
Three lectures and one laboratory period per week.
Half course. Second semester. MR. POTTER
Omitted 1950-51.

220a. HISTOLOGY. A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mammalian tissues. Two lectures and two laboratory periods per week.
Half course. MR. NUNNEMACHER

221b. EMBRYOLOGY. A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.
Half course. MR. NUNNEMACHER

223b. PARASITOLOGY. An introduction to the parasitic mode of life of the protozoa, helminthes, and arthropoda and their relation to mankind. MR. POTTER AND MR. NUNNEMACHER
Half course. Second semester.
Omitted 1950-51.

224b. Neuro-anatomy.
Three lectures per week. Mr. Nunnemacher

Omitted 1950-51

240. General Physiology. Open to students who satisfy their instructor as to their preparation. The principal types of functioning characteristic of living organisms are considered in the light of their physiochemical determinants.
Through the year. Tu. Th., 11; and two laboratory periods per week. Mr. Blair

241b Endocrinology. A study of the ductless glands and their relation to behavior.
Half course. Second semester. M.W.F., 11 Mr. Blair

242b Advanced Physiology. ~~Given through the year~~. Three lectures ~~per week first semester and three laboratory periods~~ per week second semester. Mr. Blair
~~Through the year~~. Half course, 2nd semester

244a Biochemistry. Mr. Blair
First semester. Three lectures per week. M.W.F., 10

260. Special Problems. Advanced semi-independent study of an approved topic under the direction of a member of the staff.
Hours and credit to be arranged. Staff of the Department

261b. Microtechnique. During the first semester emphasis is placed on the preparation of animal tissues for microscopic study. The second semester is concerned with the preparation of botanical sections.
Omitted 1950-51. Mr. Nunnemacher and Mr. Potter

3. PRIMARY FOR GRADUATE STUDENTS

300. Readings and Research in Botany.
Credit to be arranged. Mr. Potter

320. Readings and Research in Zoology.
Credit to be arranged. Mr. Nunnemacher

340. Readings and Research in Physiology.
Credit to be arranged. Mr. Blair

342b. Enzymology.
Second semester. Two lecture and two laboratory periods per week.
Omitted 1950-51. Mr. Blair

350. Advanced Studies in Biology.
Tues. 4-6. Staff of the Department

360. Thesis.
Credit to be arranged. Staff of the Department

COURSES IN BUSINESS ADMINISTRATION

A description of the program in Business Administration and a statement of the requirements for the degree of Bachelor of Business Administration will be found under the general heading "Undergraduate Section" and the special heading "The Division of Business Administration."

The courses in Business Administration and related subjects which follow are grouped under ACCOUNTING, ECONOMICS, ENGLISH AND PUBLIC SPEAKING, GEOGRAPHY, HISTORY AND GOVERNMENT, MANAGEMENT, MARKETING, MATHEMATICS, PSYCHOLOGY, AND STATISTICS.

In 1950-51 the following courses were given: 10, 13, 14, 16, 17, 18, 109, 112, 117, 124b, 127, 129a, 181a, 182b, 183, 20, 203b, 220, 237.

Students should note that the following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 13, 14b, 17, 109, 128, 129a, 181a, 182b, 23a, 23b, 227, 237.

ACCOUNTING

Business Administration 117. Principles of Accounting. The organization and use of financial records, with emphasis on their interpretation as well as on the techniques of procedure.

Indivisible course.

Required of freshmen in the Business Administration program.

Through the year. Tu. Th., 8; Tu., 2 and Tu. Th., 9; Th. 2.

~~Mr. Hargest and~~ Mr. Zukowski

BUSINESS ADMINISTRATION 127. INTERMEDIATE ACCOUNTING. A study of generally accepted accounting principles and procedures and their application to asset, liability and proprietorship accounts. The analysis of financial statements, including statements from incomplete date and the statement of application of funds. Emphasis is placed upon problem analysis and solution.

This course may be entered at beginning of the second semester, but credit will not be given until both semesters have been completed.

Indivisible course.

Through the year. Tu. Th. S., 10. MR. HARGEST

BUSINESS ADMINISTRATION 128. COST ACCOUNTING. A study of the basic principles of cost accounting and their application to job order, process, estimated and standard cost procedures. Consideration is given to cost systems, budgets and the managerial control of costs. Emphasis is placed upon problem analysis and solution.

Indivisible course.

Through the year. MR. HARGEST

Omitted 1950-51.

BUSINESS ADMINISTRATION 129a. FEDERAL TAX ACCOUNTING. A basic course in the fundamentals of federal income and social security taxes with major emphasis upon the preparation of returns.

Half course. First semester. T. Th. S., 11. MR. HARGEST

BUSINESS ADMINISTRATION 227a. AUDITING. After an analysis of the purpose and scope of the several classes of audits, the course deals with (1) professional ethics (2) auditing standards (3) internal control systems (4) audit procedures applicable to asset, liability and proprietorship accounts, and (5) the use of worksheets and the preparation of statements and reports.

Half course. MR. HARGEST

Omitted 1950-51.

BUSINESS ADMINISTRATION 237. ADVANCED ACCOUNTING. The theory and practice of accounting for branches, mergers, receiverships, estates and trusts, consolidated statements, budgets, municipal accounts and other topics of an advanced nature.

Through the year. MR. HARGEST

Tu. Th. S., 8.

ECONOMICS

(See also announcement of the Department of Economics and Sociology.)

ECONOMICS 11. PRINCIPLES OF ECONOMICS. Required for the degree of Bachelor of Business Administration.

ECONOMICS 13. MONEY AND BANKING. Required for the degree of Bachelor of Business Administration.

ECONOMICS 15a. PUBLIC FINANCE.

ECONOMICS 19b. ECONOMICS OF NATIONAL SECURITY.

ECONOMICS 21. BUSINESS CYCLES.

ECONOMICS 22. LABOR PROBLEMS.

ECONOMICS 25b. PROBLEMS IN PUBLIC FINANCE.

ECONOMICS 26. GOVERNMENT AND INDUSTRY.

ECONOMICS 206b. ECONOMICS OF INDUSTRY.

ECONOMICS 207. INTERNATIONAL ECONOMICS.

ENGLISH AND PUBLIC SPEAKING

ENGLISH 11. COMPOSITION AND LITERATURE. The first semester is required of freshmen in the Business Administration program.

BUSINESS ADMINISTRATION 14b. BUSINESS ENGLISH. A course in English composition designed to train the student in the preparation of reports, letters, etc., used in business.

Required of freshmen in the Business Administration program.
Half course. Second semester. M. W. F., 10. MR. HASTINGS

BUSINESS ADMINISTRATION 17a. PUBLIC SPEAKING. A course in the fundamentals of public speaking including the more common speech situations such as speech of introduction, address of welcome, expository and impromptu speeches; problems in human relations; voice tests, vocabulary drill.

Required for the degree of Bachelor of Business Administration.
Half course. First semester. M. W. F., 11. MR. ILLINGWORTH

BUSINESS ADMINISTRATION 17b. PUBLIC SPEAKING. Parliamentary procedure, open forum, panel discussion, committee meetings, reports, extemporaneous speaking.

Prerequisite: Business Administration 17a.

Half course. Second semester. M. W. F., 11. MR. ILLINGWORTH

GEOGRAPHY

(See also announcement of the Department of Geography)

GEOGRAPHY 10. PRINCIPLES OF GEOGRAPHY.

GEOGRAPHY 16. ECONOMIC GEOGRAPHY.

HISTORY AND GOVERNMENT

(See also announcement of the Department of History and International Relations)

GOVERNMENT 15. INTRODUCTION TO GOVERNMENT.

Required for the degree of Bachelor of Business Administration.

HISTORY 10. EUROPE AND THE UNITED STATES SINCE 1500.

MANAGEMENT

BUSINESS ADMINISTRATION 10b. ELEMENTS OF PRODUCTION. A survey of the production function in business, giving special emphasis to current practices and theoretical analyses of these practices in the fields of plant location, building and equipment selection, product and process development, maintenance and inventories.

Half course. Second semester. M. W. F., 9. MR. NORDSTROM

BUSINESS ADMINISTRATION 18. BUSINESS ORGANIZATION AND FINANCE. A unified year course in the financial structure of modern industry with emphasis on the nature of the business corporation, its financial practices, types of securities, capital structure, financial reorganization, and the problems of internal financial control.

Indivisible course.

Required for the degree of Bachelor of Business Administration.

Through the year. M. W. F., 9. MR. LUCAS

Business Administration 112. Introduction to Personnel Management. A survey of policies and practices in selection, training, promotion and transfer, wage payment, grievances of employees in industry and group relations in recreation, welfare plans, morale and collective bargaining.

Through the year. M. W. F., 10. Mr. Nordstrom

Business Administration 181a. Industrial Management. A study of the techniques of executive control of manufacturing operations, emphasizing measures of managerial efficiency pertaining to plant location, building selection, and policies regarding motion study, materials handling, development of products and processes, inventories, equipment and maintenance.

Half course. First semester. M. W. F., 12. Mr. Nordstrom

Business Administration 182b. Office Management. A survey of the principles of office procedure with special emphasis upon production control, planning, and estimating; departmental organization; systems and business forms; office machines; and the efficiency of control procedure.

Half course. Second semester. M. W. F., 12. Mr. Nordstrom

Business Administration 183. Industrial Relations. A study of the problem of industrial conflict and peace including the roles of union, management and government in negotiation, contracts and daily relations in collective bargaining.

Through the year. Tu. Th. S., 9. Mr. Melder

Business Administration 20. Business Law. A study of the legal basis of business and the principles of statutory and common law as they affect business relationships; covering such subjects as contracts, property, sales, negotiable instruments and agency.

Indivisible course.

Required for the degree of Bachelor of Business Administration.

Through the year. M. W. F., 8. Mr. Breen

Business Administration 220. Analysis of Business Problems. A unified year course in the analysis of specific problems of administration and policy making. The course is designed to integrate the principles covered in more specialized courses in Business Administration in order that the student may acquire an appreciation of the broad business picture, while developing his ability to view business and economic problems from an over-all standpoint.

Indivisible course.

Through the year. M. W., 2-3:30. MR. KELLEY

MARKETING

BUSINESS ADMINISTRATION 10a. ELEMENTS OF DISTRIBUTION. An introduction to the study of business activities involved in the flow of goods and services from producer to consumer. Required of freshmen in the business administration program.

Half course. First semester. M. W. F., 9. MR. KELLEY

BUSINESS ADMINISTRATION 124b. PRINCIPLES OF MARKETING. An analysis of the institutions and processes involved in the distribution of goods and services, including a study of consumer motivation, retailing and wholesaling institutions, and marketing policies and practices. Attention will be given to study and discussion of actual marketing problems.

Half course. Second semester. MR. KELLEY

BUSINESS ADMINISTRATION 109. SALES MANAGEMENT. A course designed to give the student experience in analyzing sales problems, arriving at practical solutions, and defending these solutions. Sales administration, operation, control, promotion, and policies are studied during the course.

Half course. First semester. M. W. F., 11 MR. KELLEY

BUSINESS ADMINISTRATION 23a. ADVERTISING. An introduction to the principles and practices of advertising. The emphasis is on the executive use of advertising as a tool of marketing. Topics studied include the economic functions of advertising, advertising research, media selection, advertising organizations, and testing.

Half course. First semester. MR. KELLEY

Omitted 1950-51.

BUSINESS ADMINISTRATION 23b. SALESMANSHIP. A study of the basic principles and problems of modern salesmanship; functions of sellers, basic knowledge needed in selling, and specialized sales problems.

Half course. Second semester. MR. KELLEY

Omitted 1950-51.

BUSINESS ADMINISTRATION 27a. INTERNATIONAL TRADE AND FINANCE. A study of the nature, theoretical basis, methods of financing and government control of the international movement of goods.

Half course. First semester. Omitted 1950-51.

BUSINESS ADMINISTRATION 203b. MARKET RESEARCH. A study of the types of problems faced by business executives in marketing and the ways in which the methods of scientific business research can be used for their solution.

Half course. Second semester. M. W. F., 11. MR. KELLEY

MATHEMATICS AND STATISTICS

BUSINESS ADMINISTRATION 13. BUSINESS MATHEMATICS. An elementary course designed to give the necessary foundation for an understanding of the basic processes involved in business transactions.

Required of freshmen in the Business Administration program.

Through the year. Tu. Th. S., 10. MR. STONE

BUSINESS ADMINISTRATION 16. BUSINESS STATISTICS. This course is designed to give students knowledge of and experience in the collection and presentation of statistical data and in the handling of the basic tools of statistical analysis, and their application to sampling and tests of significance, to index numbers, time series, and simple multiple, and partial linear correlation and regression, in so far as these techniques are useful in the analysis of problems in economics and business.

Required for the degree of Bachelor of Business Administration. Indivisible course.

Through the year. Tu. Th., 10 and Tu. 2-4.

MR. NORDSTROM AND MR. HARGEST

MATHEMATICS 11. FRESHMAN MATHEMATICS.

MATHEMATICS 17. MATHEMATICAL STATISTICS.

PSYCHOLOGY

(See also announcement of Department of Psychology)

PSYCHOLOGY 11. GENERAL PSYCHOLOGY.

PSYCHOLOGY 190b. INDUSTRIAL PSYCHOLOGY.

DEPARTMENT OF CHEMISTRY

PROFESSOR BULLOCK, ASSOCIATE PROFESSOR MARTELL, ASSOCIATE PROFESSOR MACGILLAVRY, ASSISTANT PROFESSOR MARTIN

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. These furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those primarily for graduate students.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should major in chemistry and take at least two years' work in physics.

They are advised to conform as closely as possible to the schedule given below.

First year: Chemistry 11; Mathematics 11; English 11; one course in "group B" and foreign language.

Second year: Chemistry 13, 14a and b; Physics 11; Mathematics 12 and a continuation of work in foreign language.

Third year: Chemistry 15 and 19; and electives.

Fourth year: Five courses, chosen from the following: Chemistry 112b, 116, 212b, 214b; Physics 15 and 17; an elective. A choice, with reference to future work, should be made after consultation with the chemistry staff.

Chemistry 19, required of all chemistry majors, is essential for work in physiology. Two years of mathematics are required preparation for Chemistry 19 and for graduate work in chemistry. The same amount of mathematics is required for all who elect chemistry as a "major," and for all who expect to become professional chemists.

For professional work in chemistry, at least one year of graduate study is highly desirable.

Students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain elective courses scheduled for the third and fourth years.

Students who intend to study medicine but are not chemistry majors should elect courses 11 and 15 which are required for admission to practically all "class A" medical schools. Courses 13 and 14 are strongly recommended if time allows.

Attention is called to laboratory fees and breakage deposits listed under the general heading "Laboratory Fees and Deposits."

GRADUATE WORK

The Department of Chemistry offers advanced courses in the fundamental principles of physical, organic, inorganic and analytical chemistry, and these are supplemented by specialized courses and research work in physical and organic chemistry. Besides a successful completion of the fundamental courses offered in the graduate school, candidates for both degrees must show facility in conducting a laboratory investigation and a command of the subject which is chosen for the thesis or dissertation.

All graduate students are required to have an adequate reading knowledge of French and German. This requirement applies to candidates for both the master's degree and the doctor's degree.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department. Further information may be obtained from the chairman of the department.

COURSES IN CHEMISTRY

During the academic year 1950-51 the following courses were given: 11, 13, 14a and b, 15, 19, 112b, 116, 212b, 215, 34, 35, 37, 38, 315, 322 ~~and 333.~~

In 1951-52 the following courses will be offered: 11, 13, 14a, 14b, 15, 19, 112b, 116, 212b, 214b, 215, 31, 33, 35, 36, 38, 315, 321.

1. PRIMARILY FOR UNDERGRADUATES

11. GENERAL CHEMISTRY. Systematic study of the elements and their principal compounds and the fundamental laws and theories of chemistry. Three lectures and three hours of laboratory work per week.

Prerequisite for Chemistry 13 and 14.

Divisible only by consent of instructor.

Through the year. M. W. F., 11; M., 2 or Th. 2. MR. BULLOCK

13. CHEMICAL PRINCIPLES. A study of the use of chemical principles in working out problems, including the study of gases, solutions, thermochemistry and homogeneous equilibrium. Three lectures and three hours of laboratory work per week.

Prerequisites: Chemistry 11.

Through the year. M. W. F., 8; M. 2. MR. MARTELL

14~~a.~~b GRAVIMETRIC ANALYSIS. Required for a major in chemistry. Chiefly laboratory work.

Prerequisite: Chemistry 14a.

Half course. ~~First~~ Second semester. W. F., 2. MR. BULLOCK

14~~b.~~a VOLUMETRIC ANALYSIS. Required for a major in chemistry. Chiefly laboratory work.

Prerequisite: Chemistry 11.

Half course. ~~Second~~ First semester. Tu. F., 2. MR. MACGILLAVRY

15. Organic Chemistry. Lectures on the principles of organic chemistry and a laboratory study of the preparation and properties of important organic compounds. Three lectures and three hours of laboratory per week.

Prerequisite: a grade of C–, or better, in Chemistry 11.

Through the year. M. W. F., 9; Tu. or Th., 2. Mr. Martin

19. Physical Chemistry. Principles of physical chemistry including atomic and molecular structure, gases, liquids, solutions, crystalline solids, chemical thermodynamics, homogeneous and heterogeneous equilibria, electrolytic conductance, electrode potentials, electrolysis and polarization, reaction kinetics, colloids.

Three hours of lectures and four hours of laboratory per week.

Required for a major in chemistry.

Prerequisites: Chemistry 13, 14b, Mathematics 12, Physics 11.

Through the year. Tu. Th., 10; Th. F., 2. Mr. MacGillavry

112b. Physico-Chemical Methods. An advanced laboratory course in physical chemistry.

Open to students who have taken or are taking Chemistry 19.

One lecture and six hours of laboratory work per week.

Half course. Second semester. Mr. MacGillavry

116. Advanced Organic Chemistry. Electron theory of molecular structure, reaction mechanisms, natural products and other advanced topics in organic chemistry. Laboratory work includes qualitative and quantitative organic analysis, and special problems in synthesis.

Prerequisites: Chemistry 15, 14b, and 16a.

Two lectures and 6 hours of laboratory work per week.

Through the year. M. W., 12; T. F., 2. Mr. Martell

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

212b. History of Chemistry. Outline of historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 15 and 19 or equivalent courses.

Half course. Second semester. Hours to be arranged.

Omitted ~~1948-49.~~ 1950-51 Mr. Bullock

214b. Advanced Quantitative Analysis (including gas analysis). Lectures and laboratory work, nine hours of laboratory work per week.

Half course. Second semester. Tu. Th., 2. Mr. Bullock

Omitted 1950-51.

215. Honors Course. Primarily for candidates for "honors in chemistry." Staff of the Department

3. PRIMARILY FOR GRADUATE STUDENTS

31. Chemical Structure and Reaction Mechanisms. Lectures on the behaviour of chemical substances from the viewpoint of resonance and electronic structure.

Three hours throughout the year. Mr. Martell

321. Advanced Physical Chemistry. Lectures on the properties of real gases, crystalline solids, liquids, solutions of molecular compounds and strong electrolytes, in relation to chemical constitution. Homogeneous and heterogeneous equilibria, reaction kinetics, electrode potentials and processes, electrolytic conductance, surface phenomena—atomic structure.

Three hours, through the year. Mr. MacGillavry

Omitted 1950-51.

322a. Elementary Quantum Mechanics. Lectures on the principles of quantum and wave mechanics, with applications to electronic theory and interpretation of spectroscopic data.

Three hours. First semester. Mr. Martell

Note: Course 322a and course 322b together constitute a full year course.

322b. Chemical Thermodynamics. Lecture on the principles of classical and statistical thermodynamics, with applications to a wide variety of chemical phenomena.

Three hours. Second semester. Mr. Martell

33. ADVANCED ORGANIC CHEMISTRY. Lectures on the fundamental reactions in organic chemistry.
Two hours, through the year. 9 T.Th. MR. BULLOCK

333. HETEROCYCLIC COMPOUNDS.
Two hours throughout the year. Omitted, 1950-51 MR. BULLOCK

34. ADVANCED INORGANIC CHEMISTRY. Lectures on selected topics in inorganic chemistry.
Two hours, through the year. MR. MARTIN

35. SEMINAR. Staff and graduate students. Reports on research work being carried on in the laboratory and reports and discussions of recently published work in related fields.
Once a week, through the year. W., 4.
STAFF OF THE DEPARTMENT

36. PRINCIPLES OF ANALYTICAL CHEMISTRY. Lectures on the theoretical basis of analytical chemistry.
Two hours, through the year. MR. MARTIN
Omitted 1950-51.

37a. SURFACE AND COLLOID CHEMISTRY. Lectures on colloidal phenomena and on physical chemical properties and effects of surfaces.
Three hours. First semester. M. W. F., 9. MR. MACGILLAVRY

37b. HIGH POLYMERS. Lectures on selected topics of the physical chemistry of high molecular and colloidal materials.
Three hours. Second semester. M. W. F., 9. MR. MACGILLAVRY
Omitted, 1950-51

38. CURRENT TOPICS IN CHEMICAL LITERATURE.. Required of all students who have completed a year of graduate work.
Hours to be arranged. THE STAFF

315. RESEARCH. THE STAFF

DEPARTMENT OF CLASSICS

ASSISTANT PROFESSOR BARLOW

The Department of Classics provides undergraduate courses for the acquisition of a reading knowledge of Greek and Latin and for the study of Greek and Latin literary masterpieces in their original form. In addition to the courses requiring knowledge of an ancient language, there are others given entirely in English, which deal with all phases of the Greek and Roman civilizations.

Since it may not be possible to offer courses in elementary Latin and Greek every year, students who desire to elect them should consult the instructor as far in advance as possible.

PRIMARILY FOR UNDERGRADUATES

GREEK

11. ELEMENTARY. Study of Greek grammar through forms, syntax, vocabulary, and reading; selections from Xenophon's Anabasis.

Indivisible course.
Open to freshmen. MR. BARLOW
Through the year. Tu. Th. S., 9.

12. PLATO, APOLOGY AND CRITO; HOMER, ILIAD. Prerequisite: Greek 11 or equivalent.

Open to freshmen. MR. BARLOW
Omitted 1950-51.

123a. GREEK CIVILIZATION. Lectures and readings on the history, literature, philosophy, art, religion, and government of Greece, with emphasis on the elements which have contributed most to Western civilization. GIVEN IN ENGLISH.

Greek 123 may be counted in fulfillment of the general requirement in art, music, and literature, but not in fulfillment of the requirement in foreign language.

Open to freshmen.
Half course. First semester. Tu. Th. S., 11. MR. BARLOW

LATIN

11. ELEMENTARY. Introduction to the Latin language through study of forms, syntax, and vocabulary, with emphasis on the Latin element in English words. Reading of selections from Latin prose.
Indivisible course.
Open to freshmen. MR. BARLOW
Omitted 1950-51.

12. CICERO, ORATIONS; VERGIL, AENEID.
Prerequisite: Latin 11 or two years of Latin for admission.
Open to freshmen. MR. BARLOW
Omitted 1950-51.

13. SELECTIONS FROM HORACE AND CATULLUS; COMEDIES OF PLAUTUS AND TERENCE. The work of the course may begin with easy prose selections, to satisfy the lack of uniformity in preparation in secondary schools.
Prerequisite: Latin 12 or three or four years of Latin for admission.
Open to freshmen. MR. BARLOW
Through the year. Tu. Th. S., 10.

15. LIVY AND TACITUS; CICERO, DE AMICITIA, AND LUCRETIUS.
Prerequisite: Latin 13 or equivalent.
Open to sophomores.
Through the year. M. W. F., 11. MR. BARLOW

17. ROMAN SATIRE; MEDIEVAL LATIN.
Prerequisite: Latin 13 or equivalent.
Open to sophomores.
To be offered 1951-52.

123b. ROMAN CIVILIZATION. Lectures and readings on the history, literature, philosophy, art, religion, law, and government of ancient Rome, with emphasis on the transmission of Greek civilization, on the developments which have contributed to Western civilization, and on the condition of the Roman Empire during the early years of the development of Christianity. GIVEN IN ENGLISH.

Latin 123 may be counted in fulfillment of the general requirement in art, music, and literature, but not in fulfillment of the requirement in foreign language.

Open to freshmen.

Half course. Second semester. Tu. Th. S., 11. MR. BARLOW

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR MAXWELL, PROFESSOR LUCAS, ASSOCIATE PROFESSOR MELDER, ASSOCIATE PROFESSOR KILLIAN, ASSOCIATE PROFESSOR HARGEST, ASSISTANT PROFESSOR KELLEY, ASSISTANT PROFESSOR NORDSTROM, MR. SCHAFFER, LECTURER BREEN.

The first aim of the department, in its undergraduate courses, is to give the student a comprehensive grasp of the underlying principles and functions of our economic and social institutions, and to develop habits of systematic and unbiased thought about these institutions. Some of the courses, however, contribute to the student's preparation for a business or professional career (Economics 13, 15a, 22, 26, etc.) and are specifically recommended to students who are candidates for the degree of Bachelor of Business Administration. Conversely, some students majoring in economics may be advised to elect certain courses in Business Administration which are credited toward the degree of Bachelor of Arts (Business Administration 10, 16, 112, 117, 18, 124, 127, 20, 27a, 203, 220).

Economics 11 is a prerequisite to all other courses in economics and is required of all majors in the department. Similarly Sociology 11 is a prerequisite to other courses in Sociology. Courses taken outside the department in partial fulfillment of the major requirement should be selected, subject to departmental approval, so as to provide a unified program centering about the student's major interest. Majors in economics will ordinarily be required to take Economics 205a, Intermediate Economic Theory.

Candidates for departmental honors will engage in a program of independent study consisting of reading and research designed in part to give them specialized training in the fields of their major interest and in part to supplement formal courses. Ordinarily a student will not begin his independent study until the second semester of the junior year, nor will he undertake the equivalent of more than two courses in this manner.

Courses in sociology will be found listed, with descriptions, immediately after the list of courses in economics.

In making elections, students should bear in mind that some advanced courses are offered only in alternating years.

GRADUATE WORK

Students expecting to enter upon graduate work should have mastered creditably basic courses in economics equivalent to at least four courses, including Economics 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the doctorate is offered in cycles of two or three years. Individual work with instructors and in small intimate seminars constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

Courses in Economics

During the academic year 1950-51 the following courses were given: Economics 11, 13, 15a, 19b, 206b, 21a, 21b, 22, 25b, 26, 28, 205a, 207, 39, 311, 322, 325, 326, 327, 338.

Descriptions of courses listed below under the designation "Business Administration" will be found in the announcement of "Courses in Business Administration".

1. PRIMARILY FOR UNDERGRADUATES

11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles to the problems of American life.

Indivisible course.

Through the year. M. W. F., 10 and 11.

Mr. Lucas Assisted by Mr. Mettler

Business Administration 112. Personnel Management.

Business Administration 117. Accounting.

Business Administration 124. Marketing.

Business Administration 127. Intermediate Accounting.

13. Money and Banking. The principles of money and banking with special reference to their functions in the present economy. The theory of value of money, control of the money market and the problem of money and credit in the world economy are given detailed consideration.

Indivisible course.

Through the year. M. W. F., 10. Mr. Maxwell

140b. Consumer Economics. A study of family budgets, planes of living, and other problems arising in the purchase of the customary goods and services. Emphasis is upon housing, insurance, savings, investments, consumer services supplied by advertisers, private non-commercial agencies, the government, and the cooperative movement.

Half course. Second semester. Tu. Th. S., 9.

Omitted 1950-51.

15a. Public Finance. The principles of governmental expenditures, revenues, and debts, with particular reference to the United States.

Half course. First semester. M. W. F., 9. Mr. Maxwell

Business Administration 16. Statistics.

Business Administration 18. Business Organization and Finance.

115b. Fiscal Development of the United States. This course treats the development of the functions and revenues of the federal government and of the state governments (with brief notice of municipalities). For the recent period most attention is given to federal-state fiscal interrelations in the form of federal grants-in-aid, tax conflicts and shared taxes. Recent proposals for a revision of federal-state fiscal relations both for the purpose of bringing federalism up to date and for implementing a high employment program are considered.

Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. Mr. Maxwell
Omitted 1950-51.

19b. Economics of National Security. This course examines the special economic problems faced by our contemporary American society as it undertakes a program of general military preparedness. Particular attention is given to overall American foreign policy and its relation to economic problems in production, resources and economic controls.

Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. Tu. Th. S., 9. Mr. Schaffer

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

Business Administration 20. Business Law.

205a. Intermediate Economic Theory. An analysis of contemporary economic theory, with attention to consumer demand, production, factor demand, prices, market structure, and aggregate economics.

Half course. First semester. Tu. Th. S., 8. Mr. Schaffer
Business Administration 203. Market Research.

206b. Economics of Industry. Description and analysis of some basic American industries with emphasis on their important problems.

Half course. Second semester. Tu. Th. S., 8. Mr. Schaffer

21a. Business Cycles. A study of national income accounts and analysis of depression, full employment and inflation under capitalism. Special emphasis on the work of J. M. Keynes and other contemporaries.

Half course. First semester. Tu. Th. S., 10. Mr. Schaffer

In 1951-52 to be given in the second semester under the title National Income Analysis.

21b. Business Cycles. Analysis of recurrent business fluctuations differentiating the typical business cycle and its phases. Treatment of the history, theories of causation and proposals for control of the business cycle.

Half course. Second semester. Tu. Th. S., 10. Mr. Schaffer

In 1951-52 to be given in the first semester.

210a. Economic and Social Reform. A study of the development of economic institutions involved in society's attempt to solve its basic economic problems. General emphasis on free enterprise, planning and contemporary industrial organization oriented towards an improved understanding of the American economy.

Half course. First semester. Tu. Th. S., 11. Mr. Schaffer

Omitted 1950-51.

211b. Comparative Economic Systems. An analysis of contemporary and recent industrialized economic systems, particularly Great Britain, U.S.S.R., Nazi Germany, Fascist Italy, and Sweden.

Prerequisite: Economics 211a or permission of instructor.

Half course. Second semester. Tu. Th. S., 11. Mr. Schaffer

Omitted 1950-51.

Business Administration 220. Analysis of Business Problems.

22. Labor Problems. A study of the development of worker and employer organizations, collective bargaining, industrial disputes and methods of prevention and settlement. The second semester is devoted largely to the study of legislative control of industrial relationships and the Social Security program.

Through the year. Tu. Th. S., 11. Mr. Melder

231. ECONOMIC HISTORY OF THE UNITED STATES. In the first semester, colonial agriculture, industry, commerce and finance are briefly treated, followed by the Revolution and the Constitution, financing the Revolution, economic development to the Civil War, economic background and consequences of the Civil War. In the second semester the main topics are economic developments in agriculture, transportation, population, labor, industry, finance, currency and banking.

Through the year. Tu. Th., 3-4:30.
Omitted 1950-51. MR. MAXWELL AND MR. CAMPBELL

25b. PROBLEMS IN PUBLIC FINANCE. This course deals mainly with problems of post-war taxation and fiscal policy. The theory underlying the so-called "full employment" act of 1946 is discussed, along with methods by which it may be implemented. Other questions for examination are reform of the federal corporate income tax and death duties, incentive taxation, federal debt policy, the capital budget, federal budgetary procedure.

Half course. Second semester. M. W. F., 9. MR. MAXWELL

26. GOVERNMENT AND INDUSTRY. An analysis of the proper function of government in controlling economic activity, including theories of control, historical development of control, and such special problems as the regulation of trusts, public utilities, and railroads.

Through the year. M., 2-5. MR. LUCAS

207. INTERNATIONAL ECONOMICS. An examination of traditional international economic theory, and its more recent developments which take into account underemployment, imperfect competition and dynamic factors. The application of these theories, and of the lessons of history, to problems arising out of post-war institutions and projects, and the future of world trade.

Through the year. Tu. Th., 1:30-3. MR. MELDER

BUSINESS ADMINISTRATION 27a. INTERNATIONAL TRADE AND FINANCE.

28. RESEARCH IN SELECTED ECONOMIC PROBLEMS. Includes departmental honors work and other individual projects completed for credit.
Hours as arranged. STAFF OF THE DEPARTMENT

29a. ECONOMICS OF TRANSPORTATION. A study of the development of the transportation system of the United States; its contemporary structure, importance, and economic aspects; the development of public control. Railway rate making and standards therefor; railway combinations and proposals for consolidation; railway labor problems.
Half course. First semester.
Omitted 1950-51.

3. PRIMARILY FOR GRADUATE STUDENTS

39. ECONOMIC THEORY. Analysis of the theories of representative economists. Most attention is given to Smith, Ricardo, Mill, Marshall, Clark, Chamberlin, Keynes.
Through the year. W. F., 2-3:30. MR. MAXWELL

311. SEMINAR. STAFF OF THE DEPARTMENT
Through the year. W., 7:30-9:30.

Research courses are offered to meet the needs of the individual students for work not presented in regularly scheduled courses.

322. RESEARCH IN LABOR. MR. MELDER

325. RESEARCH IN PUBLIC FINANCE AND MONEY AND BANKING. MR. MAXWELL

326. RESEARCH IN BUSINESS ORGANIZATION AND GOVERNMENT CONTROL OF BUSINESS. MR. LUCAS

327. RESEARCH IN INTERNATIONAL ECONOMICS. MR. MELDER

338. THESIS. STAFF OF THE DEPARTMENT

SOCIOLOGY

An undergraduate whose primary interest is in sociology may meet the departmental requirement for a major by completing Economics 11 and three or four courses in sociology together with three or two approved courses in related departments. History 10, Psychology 200 and 203, and Geography 27 are particularly recommended for this purpose.

Graduate Work

Students expecting to enter upon graduate work should have mastered creditably basic courses in sociology equivalent to at least four courses, including Sociology 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the master's degree only is offered. Individual work with instructors and in small intimate seminars constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

Courses in Sociology

During the academic year 1950-51 ~~1949-50~~ the following courses were given: 11a, 11b, 23b, 25, 29a, 28, 38

1. PRIMARILY FOR UNDERGRADUATES

11. Principles of Sociology.

A study of human origins and the development of man and his culture; cultural and ethnic backgrounds of social life; personality, culture and social structure; social organization and structure; social relations, social groups, collective behavior, human ecology; social differentiation and stratification; socialization and social interaction; social disorganization and change; social institutions and social norms.

Prerequisite for further work in sociology.

Year course. Tu. Th. S., 11.

MR. KILLIAN ASSISTED BY MR. PHILLIPS

12a. INTRODUCTION TO CULTURAL ANTHROPOLOGY.

The evolution and development of man and his culture: Basic concepts; the races of man and their distribution; process of adaptation and adjustment through culture; primitive, historic and modern culture complexes compared; divergence, transmission, and function of culture; origin and growth of civilizations; contemporary pre-literate peoples; relationship of anthropology to the other social sciences.

Half course. First semester. Tu. Th., 2-3:30. MR. KILLIAN

Omitted 1950-51.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

21a. THE FAMILY AND SOCIETY.

A study of the form and function of the family at different culture levels; the influence of geographic, biological, demographic and cultural forces; secondary groups and the family; rural and urban family.

Half course. First semester. MR. KILLIAN

Omitted 1950-51.

22b. RACE AND NATIONALITY.

The meaning of race; the distribution of ethnic groups; ethnic group characteristics—biological and environmental theories. The meaning of nationality; early types of immigrants in America; the cultural backgrounds of the earlier Americans. American minority groups and problems—the Negro, the Jew and other minority groups. The effects of later immigration; immigration restrictions and the quota system; displaced persons and proposed legislative control measures; prospective future of the American population.

Half course. Second semester. MR. KILLIAN

Omitted 1950-51.

23b. CRIME, DELINQUENCY AND SOCIETY.

Study of the explanations for crime and delinquency; history of punishment; other methods of control. Survey of the English and American criminal law and administration of criminal justice; development of penal and correctional methods including probation, parole, release procedures; the juvenile court. Proposals for youth courts and youth correction authorities. Emphasis on crime as a system of behavior. Proposals for dealing with crime and delinquency.

Half course. Second semester. Tu. Th. S., 10-11. MR. KILLIAN

24b. COMMUNITY ORGANIZATION.

The contemporary American urban and rural community in action. Nature and types of community; its place in history. Organization of communities in rural and urban life. Community studies and surveys. The constellation of community social agencies. The field of social work, recreation and welfare. Community chests and councils. Sociology and community organization.

Half course. Second semester. Tu. Th., 2-3:30. MR. KILLIAN
Omitted 1950-51.

25. SOCIAL INSTITUTIONS.

A study of the institutional complex in the social order—its history and development, its relation to the process of socialization and to mind, the emergence of standards and norms of control; the family—its basic character, systems of belief—primitive magic to contemporary religious faiths; education; property and other legal and political concepts, etc.; the interrelations, interdependence and significance, especially for the Western World, of institutional forms and processes.

Indivisible course.
Prerequisites: Soc. 11 or permission of instructor.
Through the year. Tu. Th., 1:30-3. MR. KILLIAN

28. RESEARCH IN SELECTED SOCIOLOGICAL FIELDS.

Includes departmental honors work and other individual projects completed for credit.

See also: Economics 140b, 210a, 22.

29. SOCIAL THEORY AND INTRODUCTION TO SOCIOLOGICAL CONCEPTS.

The development of man's ideas about social life, emphasizing the chief contributions from Plato and Aristotle to Herbert Spencer. The general progress of sociology since Spencer.

Half course. First semester. Tu. Th. S., 10. MR. KILLIAN

3. PRIMARILY FOR GRADUATE STUDENTS

38. RESEARCH.

See also: Economics 311, 322.

DEPARTMENT OF EDUCATION

PROFESSOR JONES, ASSISTANT PROFESSOR V. B. JOHNSON, ASSISTANT PROFESSOR LANE, ASSISTANT PROFESSOR BORGER with the cooperation of PROFESSOR ILLINGWORTH of the Department of English and ASSOCIATE PROFESSOR WARMAN of the School of Geography.

The Department has as its primary objective the providing of professional study for teachers and prospective teachers in secondary schools. It offers work leading to the degree of Master of Arts in Education and specializes in instruction leading to that degree. Many of the regular courses are scheduled in the late afternoons to meet the needs of both full-time students in Education and in-service teachers.

UNDERGRADUATE WORK

A limited number of courses are open to juniors and seniors in the College who wish an introduction to the field for purposes of general education or pre-professional training. The Department recommends, however, that undergraduate students looking to secondary school teaching as a career concentrate upon the subject-matter fields in which they desire to teach, and reserve for a fifth year the professional work in the theory and practice of education. In keeping with this general plan an undergraduate major in education is not offered.

GRADUATE WORK

The requirements for the degree of Master of Arts in Education cannot be adequately stated in terms of courses to be taken, because the evaluation of the work of each student will be made on the basis of achievement rather than on the basis of courses completed. However, the minimum essentials in terms of course requirements are outlined below.

Course requirements. The student is expected to elect one of the following groups of studies as the field in which he wishes to teach:

(a) Mathematics and natural sciences
(b) History, geography, and economics
(c) Ancient and modern foreign languages
(d) English, alone or in combination with some related subject.

Prior to receiving the degree, the candidate must have completed in undergraduate and graduate study combined not less than five year-courses in one of the above groups, or in a combination of groups approved by the Department of Education. At least two semester-courses in a subject-matter field must be taken as a part of the study in residence for the advanced degree and must be passed with a grade satisfactory for graduate credit. In addition to the above requirement in the subject-matter field, eight semester-courses of graduate work in education will normally be required. The program of courses to meet these requirements must be approved in advance by the Department. Changes in the proportion of education and subject-matter courses may be made by the Department on the basis of the candidate's previous training. Work, additional to the above requirements, either in the subject-matter field or in education, or both, may be required if this seems necessary for the adequate preparation of the candidate.

Thesis. The candidate must present a thesis, or special report. The thesis will be adapted to the vocational needs of the candidate and will not be regarded as an index of his capacity for research. In this respect it may differ somewhat from the thesis required of candidates for the degree of Master of Arts in other fields.

Courses in Education

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200a. Introduction to Education. A study of the various factors involved in the development of modern education. Although designed primarily as a first course for prospective teachers, it also furnishes an overview of education for the general student.
First semester, M. W. F., 12. Mr. Johnson

200b. Social Foundations of Education. An analysis of elements that form the background for our educational principles and practice.
Second semester. M. W. F., 12-1. Mr. Borger

201b. Educational Psychology. A study of psychological principles as they bear upon learning and other problems of education.
Second semester, S., 11-1. Mr. Jones

202b. History of Education. A study of the relationship between society and its educational agencies. One of the main purposes of the course is to help prospective teachers assess the strengths and weaknesses of our educational traditions.
Second semester, W., 2-4. Mr. Johnson

204a. Guidance in Childhood and Adolescence. A study of the development of attitudes and behavior in children and adolescents, with special attention to guidance and learning in school and home. Provision will be made for extra work for undergraduates desiring a third hour of credit.
First semester, ~~W~~., 4-6, T Mr. Lane

205b. The Teaching of English. Methods of teaching composition, poetry, drama, novel and short story.
Second semester, M., 4-6. Omitted, 1950-51 Mr. Illingworth

207b. Use of Audio-Visual Materials and Community Resources in Teaching. A survey of principles and practices in the use of visual and auditory materials and community resources in teaching. Provisions will be made for extra meetings for undergraduates desiring a third hour of credit.
Second semester, F., 4-6. Mr. Borger

209a. TEACHING OF THE SOCIAL STUDIES. A study of objectives, methods and materials in the teaching of the social studies in the secondary schools.

First semester, S., ~~9~~-11.-1 Mr. Borger

210a. PSYCHOLOGICAL APPROACH TO CITIZENSHIP DEVELOPMENT. A survey and evaluation of the experimental evidence and of the practices in the field of character and citizenship development among children and adolescents.

First semester. S., 11-1. Mr. Jones

214. TESTS AND MEASUREMENTS APPLIED TO PSYCHOLOGICAL AND EDUCATIONAL PROBLEMS. A study of the measurement of aptitude, achievement, interest and attitude. Theoretical considerations and practical problems will be included.

Through the year. M., 4-6. Mr. Jones

20b. (Same as Geography 20b). GEOGRAPHY IN EDUCATION. A survey of geography in the present-day American schools. The course is designed to meet the needs of those expecting to teach geography.

Second semester. W., 4-6. Mr. Warman

Additional work for undergraduates for an extra hour of credit.

To be offered in 1951-52. Omitted, 1950-51

25b. PRINCIPLES OF PHYSICAL EDUCATION. The course will provide instruction and laboratory work (1) in the principles and practice of organizing and teaching physical education, and (2) in the administration and teaching of athletic sports including the prevention and care of athletic injuries.

Two hours classroom work, including lecture and discussion, plus four hours laboratory and field work. Permission of instructor required.

Half course. Second semester. Tu., 4-6. Laboratory time to be arranged. Mr. Granger and Associates

308a ADVANCED PRINCIPLES OF EDUCATION. A survey of the major objectives of education, the special functions of the secondary school, and the principles which underlie the learning and teaching process. First semester

~~Through the year~~. ~~W~~., 4-6, Th. Mr. Borger

308b. Methods in Secondary Education.

Second Semester, Th., 4-6 Mr. Borger

311. VOCATIONAL GUIDANCE. A survey of the techniques and tools of the vocational counselor, including occupational information, vocational testing, methods of interviewing and counseling, case histories and reports, administration and organization of vocational guidance programs.

Through the year. ~~Th.~~, 4-6, F. MR. LANE

313. STATISTICAL METHODS. The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in measurement and research.

Through the year. W., 4-6. MR. JONES

315a. APPRENTICESHIP TEACHING. An informal course consisting of extensive practice teaching in the field or fields in which the student plans to teach. Individual supervision is given by the department and by critic teachers in coöperating schools.

First semester. Time to be a arranged.

MR. JONES AND MR. BORGER AND CRITIC TEACHERS

350. RESEARCH IN EDUCATION. Individual direction of students in their research projects. THE STAFF

360. DEPARTMENTAL SEMINAR.

THE STAFF AND GRADUATE STUDENTS

DEPARTMENT OF ENGLISH

PROFESSOR ILLINGWORTH, ASSOCIATE PROFESSOR ANDERSON, ASSISTANT PROFESSOR MOORE, MR. LETENDRE, MR. CARTER, AND MR. HASTINGS.

English 11 through the year is required of all freshmen for the degree of Bachelor of Arts. The successful completion of the first semester or its equivalent is prerequisite to the second semester.

A major in English consists of seven courses in addition to English 11. Every English major must take all three semesters of English 15 and two and one-half other courses in English, two of which must be courses open only to juniors and seniors. As the three courses in allied fields, each English major must take General Education 14, a year course in Philosophy, and one other course approved by the department (preferably History 12, French 113, German 141, or Greek 123a and Latin 123b).

The only English courses open to freshmen are English 11 and 142b. For English majors, English 15 is prerequisite to all other English courses except English 11, 16, 111, and 142b. English 17 is designed especially for non-English majors, though English 15, 111, and other courses with the consent of the instructor are open to them.

If at least two units of elementary Latin or elementary Greek have not been accepted for admission to college, the English major must satisfy this requirement as prescribed on pages 66 and 67.

English majors should follow as closely as possible the following program:

First year
- English 11
- Group A
- Group B (G. E. 14)
- Foreign language
- One elective (Fine Arts requirement recommended)

Second year
- English 15a and b
- English 111 (recommended)
- Group A
- Group B
- Foreign language

Third year
- English 15c
- One semester of Shakespeare
- English 18a or 18b (18a recommended)
- One half course in English (from group of courses open only to juniors and seniors)
- Foreign language
- Philosophy (any one course)
- One elective (one of the following recommended: French 113, German 141, History 12, Greek 123a and Latin 123b.)

Fourth year
- Two half courses in English (one of which must be chosen from group of courses open only to juniors and seniors)
- Four half courses in English (recommended)
- Two electives

An English major planning to do graduate work in English should include in his program English 10a, 13b, 18a, History 12, and at least two English courses beyond the required four.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH

During the academic year 1950-1951 the following courses were given: 10b, 11, 12, 13b, 15a, b, c, 16, 17, 18b, 105, 111, 117b, 126a, 142, and for the Division of Business Administration B.A. 14b and 17.

I. COMPOSITION COURSES

11. COMPOSITION AND LITERATURE. The purpose of English 11 is to develop clarity and accuracy in reading and writing. The first semester reviews the principles of rhetoric and offers the student practice in analyzing difficult expository passages. The second semester aims to help the student develop sound critical principles in evaluating fiction, drama, and poetry.

Required of freshmen.

Through the year. M. W. F., 9; 10; 11. Tu. Th. S., 10; 11.

MR. CARTER, MR. HASTINGS, MR. LETENDRE AND MR. MOORE

16a. CREATIVE WRITING. This course is designed for students who have demonstrated an aptitude for composition and who desire training in creative writing with emphasis on the short story. Individual conferences weekly.

Half course. First semester. Tu. Th. S., 11. MR. MOORE

16b. Advanced Composition.
Half course, second semester. M.W.F., 9

Mr. Moore

19b. Advanced Composition. This course is designed for students who desire further training in the basic principles of composition. Special attention is given word choice, sentence and paragraph structure, and organization. Exposition is emphasized. Individual conferences.

Half course. Second semester. Tu. Th. S., 11. Mr. Moore

Given as 16b in 1950-51 - see preceding page.

II. LITERATURE COURSES

A. SURVEYS AND OTHER GENERAL COURSES

15. A Survey of English Literature. A course in English literature from its beginning to the present time.

This course runs through three semesters as follows:

~~a.~~ A. Beginning to 1660 (first semester) Mr. Anderson
~~b.~~ B. 1660 to 1832 (second semester) Mr. Moore
~~c.~~ C. 1832 to the present (first semester) M.W.F., 10 Mr. Letendre

Divisible for non-English majors.

No student may count both English 15 and 17 toward the A.B. degree.

M. W. F., 11.

17. Great English and American Writers. See General Education 17.

18b The Bible as Literature. ~~First semester, Old Testament;~~ second semester, New Testament.

Divisible course. Half course, second semester

M. W. F., 10. Mr. Illingworth

111. A Survey of American Literature. A course in American literature from Puritan times to the present.

Divisible for non-English majors.

Through the year. Tu. Th. S., 11.

Mr. Anderson and Mr. Letendre

133b. A History of Literary Criticism.

Half course. Second semester. M. W. F., 10.

Omitted 1950-51.

142a. THE ENGLISH NOVEL. A study of the novel from its beginning to Thomas Hardy.
Half course. First semester. M. W. F., 8. MR. ILLINGWORTH
To be omitted 1951-52.

B. SPECIAL PERIODS OR INDIVIDUAL AUTHORS

10b. CHAUCER. After a study of the text of two or three of the *Canterbury Tales,* the main works of Chaucer are read more rapidly. The student is also introduced to Middle English grammar and is given drill in reading Chaucer aloud.
Half course. Second semester. M. W. F., 10. MR. ANDERSON
To be omitted 1951-52. Offered in alternate years.

13b. SHAKESPEARE. A study of the development of Shakespeare as a dramatist. Twelve plays are studied, with the main emphasis on *Hamlet, Othello, Lear,* and *Macbeth.*
Half course. Second semester. M. W. F., 11. MR. ANDERSON

14b. ELIZABETHAN DRAMA.
Half course. Second semester. M. W. F., 9.
Omitted 1950-51.

104. MILTON AND THE SEVENTEENTH CENTURY.
Indivisible course. M. W. F., 9.
Omitted 1950-51. Offered in alternate years. MR. CARTER

105. EIGHTEENTH CENTURY.
Indivisible course. M. W. F., 9. MR. CARTER
To be omitted 1951-52. Offered in alternate years.

117b. ENGLISH ROMANTIC POETRY.
Half course. Second semester. Tu. Th. S., 11. MR. MOORE
To be omitted 1951-52.

126a. MODERN BRITISH AND AMERICAN DRAMA.
Half course. First semester. Tu. Th. S., 10. MR. LETENDRE
To be omitted 1951-52. Offered in alternate years.

127a. Modern Continental Drama. A survey of European drama from Ibsen to the present.

Half course. First semester. Tu. Th. S., 10. Mr. Letendre

Omitted 1950-51. Offered in alternate years.

142b. The Modern Novel. A comparative study of representative twentieth century novels of Russia, Germany, France, Sweden, England, and the United States to show how different cultures have treated this vehicle of literary expression.

Half course. Second semester. M. W. F., 8. Mr. Illingworth

Open to freshmen.

III. PUBLIC SPEAKING AND DRAMATICS

12. Public Speaking. A course in the composition and delivery of the most commonly used speeches, parliamentary procedure, discussion groups, and vocabulary drill.

Indivisible course.

Through the year. M. W. F., 9. Mr. Illingworth

145a. Stagecraft. A study of the principles and problems involved in producing plays. Practical experience will be given through laboratory work and public performances.

Half course. First semester. Mr. Illingworth

Omitted, 1950-51

145b. Acting. Develops the actor from a close study of his basic requirements. An analysis of the emotions, business, pantomime, and interpretation given in theory and practice.

Half course. Second semester. Mr. Illingworth

Omitted, 1950-51

146b. Oral Interpretation of Literature. A course stressing the imagination and the dramatic instinct as fundamental sources of good oral and patomimic expression. The intellectual elements of vocal expression are studied with special reference to phrasing, inflection, and emphasis; individual and choral speaking.

Permission of the instructor is a condition for enrolling in this course.

Half course. Second semester. Mr. Illingworth

Omitted, 1950-51

147b. THE ORAL INTERPRETATION OF SHAKESPEARE. The life of Elizabethan England with special emphasis on the theatre of Shakespeare. Recordings of such actors as Paul Robeson, Maurice Evans, John Gielgud, and Orson Welles. The plays to be read will include *Hamlet, Cymbeline, Julius Caesar, King Lear, Othello, The Comedy of Errors, Merchant of Venice, Taming of the Shrew, As You Like It, Henry V* and *Richard II.*

Half course. Second semester. MR. ILLINGWORTH

Omitted, 1950-51

DEPARTMENT OF FINE ARTS

ASSISTANT PROFESSOR JOHNSON, MR. COWARDIN with the cooperation of PROFESSOR ILLINGWORTH, ASSOCIATE PROFESSOR (AFFILIATE) BARNETT, ASSOCIATE PROFESSOR NICOL, ASSISTANT PROFESSOR BARLOW, ASSISTANT PROFESSOR EDWARDS

The Department of Fine Arts offers two programs for the major. One is intended for those interested primarily in the history of art. The other is designed to provide sound training in fundamentals for qualified students whose principal interest is in the practice of art. This program, offered in conjunction with the School of the Worcester Art Museum, has the distinct advantage of affording a thorough professional grounding in art without the sacrifice of liberal arts training. Courses to be taken in the museum school are carefully chosen with regard to the individual student's professional objective. Thus programs vary for those interested in the practice of painting or sculpture, the teaching of art, or commercial art. Clark students who elect this program will have completed, upon graduation, the approximate equivalent of two years of art school. It should be emphasized that this is an alternative major program and that students electing it must still fulfill all general requirements for the degree of Bachelor of Arts.

The alternative programs for the major in Fine Arts are as follows:

History of Art

1) The basic course, Fine Arts 11, to be completed before the end of the sophomore year.
2) Fine Arts 111.
3) History 10, to be completed before the end of the sophomore year.
4) Two full courses chosen from the following: Fine Arts 15, 16, 191a, 192a.
5) Two full courses chosen from the following: French 113, German 141, Greek 123a, and Latin 123b.
6) Music 12.

Practice of Art

1) Fine Arts 11.
2) History 10.
3) Seven courses chosen from the offerings listed in the catalog of the School of the Worcester Art Museum.

During the academic year for 1950-51 the following courses in Fine Arts have been given: 11, 15, 191a, 13b; and Music 12, 15a, 15b.

1. PRIMARILY FOR UNDERGRADUATES

Fine Arts 11. Survey of Art in the West ~~An Introduction to Western Art.~~ A preliminary consideration of basic aesthetic elements in the visual arts is followed by a study of architecture, sculpture, and painting from the beginnings to the present day. Field trips are required.

Open to freshmen.

Through the year. M. W. F., 9. Mr. Cowardin

Fine Arts 111. Drawing and Painting 1. Analysis of elements; color and value theory; studies from still life and models; lectures on composition. Students attend classes of the School of the Worcester Art Museum.

Through the year. M. Tu. F., 1:30. Mr. Barnett

Ordinarily open only to majors in Fine Arts.

Fine Arts 12b. A Survey of Painting in the West. The development of pictorial expression from the beginnings to the present. Emphasis is placed upon methods and styles. Field trips are required. Designed primarily for non-majors. May not be counted in addition to Fine Arts 11.

Open to freshmen.

Half course. Second semester. M. W. F., 12. Mr. Cowardin

Omitted, 1950-51

Fine Acts 13b. A Survey of Architecture and Sculpture in the West. A consideration of fundamental architectural terminology and principles is followed by a study of major works of architecture and sculpture from the beginning to the present day. Emphasis is placed upon stylistic development. Field trips are required. Designed primarily for non-majors. May not be counted in addition to Fine Arts 11.

Open to freshmen.

Half course. Second semester. M. W. F., 12. Mr. Cowardin

Omitted 1951-52.

Fine Arts 15. The Art of the Renaissance in Italy. The first semester is devoted to a consideration of architecture (Brunelleschi through Palladio), and sculpture (Jacopo della Quercia through Michelangelo); the second semester is concerned with painting (Masaccio through Raphael). Emphasis is placed upon the historical background. Field trips are required. Fine Arts 11 is ordinarily prerequisite.

Through the year. M. W. F., 11. Mr. Cowardin

Omitted 1951-52.

Fine Arts 16. The Art of the Seventeenth and Eighteenth Centuries. A consideration of the origins of the baroque style, followed by a study of major works of European art of the seventeenth and eighteenth centuries. The principal stylistic trends are stressed. The more important artistic personalities—Bernini, Rubens, Rembrandt, Velasquez, and others, are also treated in detail. Field trips are required. Fine Arts 11 is ordinarily prerequisite.

Through the year. M. W. F., 11. Mr. Cowardin

Omitted, 1950-51

Fine Arts 191a. The Art of the Ancient Near East and India. This course is primarily concerned with architecture and sculpture in ancient Mesopotamia, Assyria, Persia, and India. Significant works are examined critically and studied in relation to their historical and religious background. Field trips are required.

Half course. First semester. Tu. Th. S., 9. Mr. Cowardin

To be omitted 1951-52.

Fine Arts 192a. The Art of China and Japan. An introduction to the art of the Far East. Sculpture and painting in China from the prehistoric period to the Ming dynasty, and, in Japan, from the Suiko to the Tokugawa period. Architecture will be treated only incidentally. Field trips are required.

Half course. Tu. Th. S., 9. Mr. Cowardin

Omitted, 1950-51

Music 12. ~~A Survey Course in Form and Style~~ Introduction to Music. Beginning with the genesis of sonata-form, the course extends to the beginning of the twentieth century. The Vienna classicists, the romantic movement, the rise of impressionism, and the so-called modernists are treated in various types of music heard in concert-hall, opera house, and over the radio.

An indivisible course except that qualified students may be admitted for the second semester with the consent of the instructor.

Elective for sophomores, juniors, and seniors.

Through the year. M. W. F., 10 and 11 (2 sections).

Mr. H. E. Johnson

Music 13. The Opera. A course in the evolution of opera from Peri's *Dafne* to Berg's *Wozzeck*. A large repertory of major scores is studied with such historical and literary backgrounds as may conveniently be applied.

Elective for sophomores, juniors, and seniors.

Through the year. Mr. H. E. Johnson

Omitted 1950-51.

Music 14a. The Life and Works of Beethoven. A formal and stylistic analysis of major works by music's most inspired prophet of the nineteenth century. There is intensive score-reading. The biographical material is widened to include the unique relationship of Beethoven's creative work to the changing times in which he lived. Music 12, or some previous interest in music is prerequisite.
Half course, first semester. Tu. Th. S., 10.
Omitted 1950-51. Mr. H. E. Johnson

Music 15b. Twentieth Century Music. The changing concepts of musical form and style parallel those in the visual arts and are closely related. Beginning most conspicuously with Debussy, the newer idioms are traced in this course to the present day through careful study of works by Ravel, Stravinsky, Hindemith, Copland, Berg, Schönberg, Harris and many others whose scores have significance for their time. Music 12 or some acquaintance with the literature of music is prerequisite.
Elective for sophomores, juniors, and seniors.
Half course. Second semester. Tu. Th. S., 10.
Mr. H. E. Johnson

Music 15a. Music to 1750. A course in early music from its primitive stages, through the Middle Ages, and the productive 14th-16th centuries, culminating in the masterworks of Bach and Hāndel. As in all music courses, emphasis is placed on forms and styles. Music 12 or some acquaintance with the literature of music is prerequisite.
Elective for sophomores, juniors, and seniors.
Half course. First semester. Tu. Th. S., 10. Mr. H. E. Johnson

French 113. Introduction to French Civilization.
Through the year. Tu. Th. S., 11. Omitted, 1950-51 Mr. Nicol
German 141. Germanic Civilization. M.W.F., 12 Mr. Edwards
Greek 123a. Greek Civilization.
Half course. First semester. Tu. Th. S., 11. Mr. Barlow
Latin 123b. Roman Civilization.
Half course. Second semester. Tu. Th. S., 11. Mr. Barlow
English 145a. Stagecraft. Mr. Illingworth
Half course. First semester. Omitted, 1950-51

COURSES IN FRENCH

A description of the offerings in French and a list of courses in French will be found in the announcement of the Department of Romance Languages.

COURSES IN GEOGRAPHY

A complete statement of the organization and special requirements in the Graduate School of Geography will be found in an earlier section of the catalog under the heading The Graduate School of Geography.

UNDERGRADUATE PROGRAMS

Undergraduates planning to major in geography or to enter graduate work in geography are urged to consult the geography staff early in their undergraduate courses, to plan suitable programs including essential courses in related fields.

Majors in geography are required to take seven year-courses, or the equivalent, in geography and related fields. At least four, and not more than five of these courses must be in geography.

Geography 10, Principles of Geography, is usually taken in the freshman year (or as early as possible after the major subject is chosen to be geography). One or two of the following courses may be taken during the sophomore year: Geography 12a—Introduction to Climatology; Geography 16, Economic Geography; Geography 191, Cartography. Courses in geography, such as 18, Geography of New England, 25, Conservation of Natural Resources, and regional courses should not be undertaken until the junior or senior years. Juniors of superior standing and seniors may be accepted, by special permission, to take number "2" geography courses, such as 27a, Human Geography; 27b, Cultural Geography; 201, Political Geography; 20b, Geography in Education (primarily for those expecting to teach); 282a, Geography of North America; 283b, Geography of South America; 285a, Geography of Europe.

COURSES IN FIELDS RELATED TO GEOGRAPHY

Students majoring in geography should plan early to take the required courses in other fields in order to possess the prerequisites for admission to advanced related courses in their junior and senior years to parallel the courses in their geography program.

The very nature of geography permits a rather wide selection of related courses. However, courses in history, economics, geology, biology, physics, are usually acceptable.

Geology 12, Biology 11, History 10, or Physics 11 may be taken in the freshman year; Economics 11, Government 15 or History 12 in the sophomore year. More advanced work in the fields mentioned will depend largely upon the individual student's interest and desires.

"HONORS WORK" IN GEOGRAPHY

The Clark University Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The staff, composed of specialists in their various fields of geography offer regular courses in instruction and direct advanced students in research work. Hence, a junior or senior pursuing an "honors program" in geography is afforded an opportunity to associate with other students in the Graduate School of Geography. For example, a superior student may undertake 391, Advanced Cartography; 314, Physiography of the Western Hemisphere; 33, Soils and Land Use; 32, Climatology; 36, Problems of Economic Geography; and some graduate regional courses. On rare occasions an undergraduate student has been invited to participate in the Fall Field Camp of the Graduate School.

Independent research projects may be undertaken with the adviser in constant surveillance. This research work may be in the fields of human geography, physiography, geography in education, economic geography, land utilization, cartography and regional geography. Such research work must be completed within the semester in which it is started, or proof advanced that the study warrants more time.

When the Senior Survey is set up all honor students will be required to participate. The staff also conducts an oral examination of at least one hour's length to ascertain the achievement of the honors student.

Courses in Geography

1. primarily for undergraduates

10. Principles of Geography. An introductory course dealing primarily with the physical phases of geography and the application of the principles of geography to the study of selected regions throughout the world. Juniors and seniors admitted only by special permission.

Through the year. M. W. F., 10. Mr. Warman

12a. Introduction to Climatology. Elements of meteorology and climatology with practical exercises. Emphasis on most recent theories; explanation of distribution of types of climate.

Prerequisite: Geography 10 or equivalent.

Half course. First semester. Tu. Th. S., 8. Mr. Warman

16. Economic Geography. The geography of the world's mineral, plant and soil resources with special reference to problems of use and conservation.

Prerequisite Geography 10 or Economics 11, or equivalent.

Through the year. ~~M. W. F., 11.~~ T.Th.S., 9 Mr. ~~Higbee~~ Murphy

18. Geography of New England. A field and lecture course with special emphasis, in the first semester, on Worcester and vicinity. In the first semester, class meetings begin October 15, following the field camp. Because of the late beginning, three special week-end programs of laboratory work in the field of three hours each, with carefully prepared reports of each, are required.

Indivisible course.

Prerequisites Geography 10 and Geology 12, or equivalent.

Through the year. M. W. F., 9. Mr. Lougee

191. Cartography and Graphics. Preparation of maps, graphs, charts, and block drawings.

Through the year. M., 3-5; W., 12. Mr. Burnham

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

20a. VISUAL AIDS IN GEOGRAPHY. A course designed to meet the needs of those expecting to teach or already teaching. Sources of visual aids and the practical use of them will be features.

This class holds its meetings in the late afternoon so that teachers in public and private schools may be able to attend.

Half course. Second semester. M., 4-6. MR. WARMAN

To be Omitted 1951-52; omitted, 1950-51

20b. GEOGRAPHY IN EDUCATION. A survey of geography in the present-day American school system, designed to meet the needs of those expecting to teach geography.

This class meets in the late afternoon for the convenience of public and private school teachers.

Half course. Second semester. W., 4-6. MR. WARMAN

Omitted, 1950-51

25. CONSERVATION OF NATURAL RESOURCES. A survey of natural resources including a study of ways and means of insuring wise utilization of essential or strategic resources.

Through the year. M. W. F., 10. MR. HIGBEE

To be Omitted 1951-52; omitted, 1950-51

27a. HUMAN GEOGRAPHY. A study of the influence and effect of location, area, relief, coastline, drainage systems, climate, and other geographic factors, separately, and in their mutual interaction upon the economic, social, and political development of peoples and states.

Half course. First semester. M. W. F., 11 ~~Tu. Th., 1~~. MR. Fawcett ~~WARMAN~~

(27a and 27b should be taken through the same year.)

27b ~~37b~~. CULTURAL GEOGRAPHY. A summary of the role that geographic factors have played in the evolution of races and cultures, artifacts and institutions.

Half course. Second semester. M. W. F., 11 ~~Tu. Th., 1~~.
MR. Fawcett ~~VAN VALKENBURG~~

29.b Oral Presentation ~~Techniques~~ of Geographic Material. A methods course for graduate students who plan to teach on secondary, college, and university level. Non-credit course.
Hours to be arranged. Mr. Van Valkenburg and Mr. Warman

201. Political Geography. A study of major political problems of the world as related to geographic factors. Application of principles to international relations of selected regions.
Through the year. Tu. Th. S., 10. Mr. Van Valkenburg

285a. Geography of Asia ~~Europe~~. An intensive study of the continent and detailed study of selected regions.
Half course. First semester. M. W. ~~F.~~, 1. Mr. Van Valkenburg

285b. Geography of Asia. An intensive survey of the continent region by region.
Half course. Second semester. M. W. F., 1.
Omitted, 1950-51 Mr. Van Valkenburg
~~Omitted 1951-52~~.

291. Cartography and Graphics.
Through the year. Hours to be arranged. Mr. Burnham

3. PRIMARILY FOR GRADUATE STUDENTS

30. Seminar. Required of all graduate students.
Hours to be arranged. The Staff

32. Regional Climatology. A study of the climates of the world by major regional examples.
Two hours, through the year. M. W., 8. Mr. Van Valkenburg

33a. Soils Geography. A review of the development and character of soils, their distribution and economic significance, in the light of their geographical relationships.
Two hours. First semester. ~~M. W., 9~~. T. Th., 8 Mr. Higbee

33a and 33b should be taken through the same year.

33b. LAND UTILIZATION AND PLANNING. An outline of relationships that physical and cultural factors bear to purpose and pattern of land uses, conservation of land resources, and basic elements of land planning.

Two hours. Second semester. ~~M. W., 9.~~ T. Th., 12 MR. HIGBEE

34. BIOGEOGRAPHY. Geographical significance of character, function, distribution, and relationships of plant and animal forms and societies in their adjustments to environment.

Two hours. Through the year. ~~W., 2-4.~~ S, 9-11 MR. HIGBEE

36. PROBLEMS IN ECONOMIC GEOGRAPHY. An advanced study of economic geography, dealing especially with mining, agriculture, and manufacturing. Emphasis upon research methods and techniques.

Two hours, through the year. M. W., 10. MR. MURPHY

39. HISTORICAL BACKGROUND OF GEOGRAPHY. A series of lectures on European and American phases.

Hours to be arranged. Omitted, 1950-51 THE STAFF

300. PH.D. SEMINAR. Hours to be arranged.

MR. VAN VALKENBURG

311b. OCEANOGRAPHY. The study of the Oceans from the standpoint of the great basins, their inherent characteristics and their economic worth. Non-credit course.

Hours to be arranged. Omitted, 1950-51 Visiting Professors

314. REGIONAL PHYSIOGRAPHY OF WESTERN HEMISPHERE. A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.

Two hours of lecture and two hours of laboratory weekly.

Through the year. Tu. Th., 9. MR. LOUGEE

To be Offered 1951-52. Omitted ~~1952-53.~~ 1950-51

315. REGIONAL PHYSIOGRAPHY OF THE EASTERN HEMISPHERE. A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.

Two hours of lectures and two hours of laboratory weekly.

Through the year. Tu. Th., 9. MR. LOUGEE

To be Omitted 1951-52. ~~Offered 1952-53.~~

361. URBAN GEOGRAPHY. The modern city from the viewpoint of geography.
Two hours. Through the year. Tu. Th., 11. MR. MURPHY

383a. GEOGRAPHY OF MIDDLE AMERICA. Historical background of the republics and islands of the Caribbean; analysis of selected important regions; increasing importance of the Caribbean area in commercial and political relations.
Two hours. First semester. Tu. Th., 8. MR. WARMAN
Omitted 1951-52.

383b. GEOGRAPHY OF LATIN AMERICA. Analysis of the major geographic regions; special geographic problems of Latin American governments; detailed study of topographic maps.
Two hours. Second semester. Tu. Th., 2. MR. WARMAN

385. GEOGRAPHY OF EURASIA. Intensive survey of the continent and detailed study of selected regions.
Through the year. M. W., 2. MR. VAN VALKENBURG
Omitted 1951-52.

387b. GEOGRAPHY OF THE PACIFIC AREA. A regional treatment of the human geography of the islands of the Pacific.
Offered when demand warrants. MR. MURPHY

391. CARTOGRAPHIC PRESENTATION OF THE GEOGRAPHICAL LANDSCAPE.
Through the year. F., 2:30 to 4:30. MR. RAISZ

399a. FIELD METHODS AND STUDIES. Required of every graduate student.
First three weeks of every year. THE STAFF

RESEARCH COURSES

200. GEOGRAPHY IN EDUCATION. MR. WARMAN

310. REGIONAL PHYSIOGRAPHY. MR. LOUGEE

320. CLIMATOLOGY. MR. VAN VALKENBURG

385a. Geography of Great Britain.
Two hours, first semester. M.W., 9. Audit course.
Mr. Fawcett

385b. Geography of India.
Two hours, second semester. M.W., 9. Audit course.
Mr. Fawcett

330. Soils Geography. Mr. Higbee

340. Biogeography. Mr. Higbee

350. Agricultural Geography or Land Utilization. Mr. Higbee

360. Economic Geography. Mr. Murphy

360b. Urban Geography. Mr. Murphy

370. Human Geography and Demography.

380. Regional Geography. The Staff

390. Political Geography. Mr. Van Valkenburg

DEPARTMENT OF GEOLOGY

Professor Little

During the academic year 1950-51 only course 12 was given.

1. PRIMARILY FOR UNDERGRADUATES

12. General Geology. A course dealing with the origin of scenery, the classification and interpretation of rocks, the structure of the earth, the geography of the past, and the evolution of life.

Three recitations and one laboratory period at University or in field weekly. Attendance on one program of laboratory work in the field lasting two to four days is required.

Indivisible course.

Through the year. M. W. F., 8; Th. 2. Mr. Little

121b. Crystallography, Mineralogy, and Blowpipe Analysis. An elementary course on the identification of minerals by their geometrical, physical, and chemical properties. Two class meetings and one laboratory period weekly. General geology is not a prerequisite for this course. Mr. Little

Omitted 1950-51.

122b. Economic Geology. A course dealing primarily with the origin of the deposits of useful minerals with some reference to their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable background for this course. Two class meetings and one laboratory period weekly.

Geology 121 is a prerequisite. Mr. Little

Omitted 1950-51.

DEPARTMENT OF GERMAN

Professor Arndt, Assistant Professor Edwards, Mr. Welti

The Department of German provides undergraduate courses for the acquisition of a reading and speaking knowledge of German and for the study of German literature and Germanic civilization.

German 11, 12, 13 form a regular sequence leading to a reading knowledge.

The language requirement for the Degree of Bachelor of Arts may be fulfilled by German 13 or a literature course with stated prerequisites. The department may, when justified by the exceptional preparation or objectives of a student, permit German 123 to take the place of 13 for the fulfillment of the language requirement.

The seven courses required for a major should include the two literature courses, German 152 and 153, prerequisites to these courses, and one course in another language department. Elective courses should be approved by the department.

Attention to correct pronunciation and writing is given in all language and literature courses. The recording machine and gramophone are used in all classes to assist in the acquisition of correct pronunciation.

The Germanic Society is an organization of students which provides an informal meeting ground for all those within the campus community interested in the German language and culture. It fosters speaking, singing and reading German; it produces a German language play each year and presents a series of monthly evening programs, consisting of German films, playlets, group singing and the like. It provides lectures and discussions in German from time to time on various aspects of Germanic civilization and literatures, designed to give the more advanced students an opportunity to increase the scope of their classroom work.

The Department of German has a chapter of the "Delta Phi Alpha" honorary German fraternity. Outstanding students of German may be invited to be members of the fraternity.

Generally the members of the Delta Phi Alpha Fraternity participate and take the lead in the activities of the Germanic Society but may, if there is sufficient interest and need, manage independently some of the activities of the Germanic Society.

COURSES IN GERMAN

During the academic year 1950-51 the following courses were given: 11, 12, 13, 123, 19, 132, 141, 152.

1. PRIMARILY FOR UNDERGRADUATES

11. READING APPROACH TO GERMAN—FOR BEGINNERS. Study of vocabulary, pronunciation, elements of grammar, composition, reading of easy prose.

Indivisible course.

Through the year. M. W. F., 8 and 10; Tu. Th. S., 9. THE STAFF

12. INTERMEDIATE GERMAN (Second Year). Reading, translation, review of grammar essentials, exercises in composition and pronunciation.

Prerequisite: German 11 or two years of high school German.

Indivisible course.

Through the year. M. W. F., ~~9~~ 10; Tu. Th. S., ~~9~~ 10. THE STAFF

13. READINGS IN GERMANIC LITERATURE. (Third Year). Introduces the student to a few of the outstanding works of German literature. Additional readings in the social sciences. Exercises in composition.

Prerequisites: German 12 or its equivalent. Mr. Welti and

Through the year. Tu. Th. S., 9 and 10. ~~THE STAFF~~ Mr. Edwards

123. CONVERSATIONAL GERMAN. Practice in speaking and writing German. Recommended for those students who plan to major in German or for non-majors who have a real interest in attaining fluency in the language.

Prerequisite: Germain 12, or its equivalent.

Through the year. M. W. F., ~~10~~ 11. MR. WELTI

132. ADVANCED GRAMMAR AND COMPOSITION. Special course for majors in German and advanced non-majors. Advanced grammar, composition, letters and study of modern prose.

Through the year. T. F., 1:30-3, MR. WELTI

152. LITERATURE: THE AGE OF ENLIGHTENMENT AND THE CLASSICAL PERIOD. Lectures, reading reports.

Prerequisite: German 13 or satisfactory record in an achievement test in reading, writing and the oral use of the language.

Through the year. M. W. F., ~~9~~. 10 MR. ARNDT

153. LITERATURE: THE NINETEENTH AND THE TWENTIETH CENTURIES. See German 152.

Through the year. M. W. F., 9. MR. ARNDT

Omitted 1950-51. Offered in alternate years.

19. SEMINAR FOR HONORS STUDENTS. Independent reading of literature to supplement the work done in course. Oral and written reports.

M. W. F., 9 ~~11~~ and arranged conferences. MR. ARNDT

141. GERMANIC CIVILIZATION. An illustrated lecture course in English of the literature, history, and the fine arts of the German lands from the Holy Roman Empire to the present day, with special stress laid upon the Reformation, the Age of Enlightenment and the Classical Period. MR. EDWARDS

COURSES NOT REGULARLY OFFERED

142. GERMAN CLASSICS IN TRANSLATION.

161a. LYRIC POETRY. A survey of German lyric poetry.

162b. GOETHE'S FAUST. Fragment, First and Second Part.

HEALTH EDUCATION FOR UNDERGRADUATE WOMEN

A required course for students in the Women's College, offered each academic year.

Hygiene. A study of the basic principles of physiology and anatomy and the principles of healthful living which will aid the student in developing attitudes and habits necessary for happiness and service in personal, family, and community life.

A non-credit course.

First semester. Th., 12-1. Miss Hughes

DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

Professor Lee, Professor Jordan, Associate Professor Hayden, Associate Professor Campbell, Assistant Professor Cohen, Mr. Raeff

UNDERGRADUATE WORK

In its undergraduate program the department offers basic courses in the fields of American, European, and British history, American and European government, and international relations.

General Education 14 must be taken as early as possible by majors in the department. Other courses primarily for undergraduates may be elected by non-majors who have not previously taken G. E. 14; and courses for advanced and graduate students may be taken by non-majors with the permission of the instructor if in his judgment the student has an adequate background for the course. Majors will normally take Economics 11 as well as G. E. 14 before the end of the sophomore year. Further elections in this and related departments are determined by the major's special interests, but are expected to include at least two upper class (2) courses in this department. For inter-departmental programs in which this department cooperates, see pages 89-91.

International Relations

Attention is called to the inter-departmental major in international relations, described on p. 89. The department's courses in the field are listed under both history and government.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis laid upon individual instruction and guidance by means of informal conferences between instructor and student, small classes, and seminars. The principal fields of graduate study are American, English and European history and politics, modern diplomacy, and the international relations of the United States, Europe, the British Empire, and the Far East.

The program for the degree of Master of Arts is worked out individually with each student. All are required to take the departmental seminar (History 30). For general requirements, see the announcement of the Graduate School.

For the doctorate, a candidate must present six fields of study, two of which are normally written off by approved courses or by written examinations, while four are tested in the preliminary oral examination. The doctoral dissertation is written in one of the six fields, designated as the special field. The final doctoral examination covers both the dissertation and the special field.

Reading courses are offered to meet the wants of individual students who need work which is not presented in regularly scheduled courses. Thesis courses provide guidance for those preparing theses or dissertations. These may be semester courses or year courses.

Attention is called to related work offered in the fields of geography and economics from which minor fields for both the master's and the doctor's degrees may be chosen. Note also the announcement of the Division of International Affairs.

COURSES IN HISTORY, GOVERNMENT, AND INTERNATIONAL RELATIONS

During the academic year 1950-51 the following courses were given: G. E. 14, History 11b, 12, 130a, 210a, 225, 230, 281, the Honors Conference, 30, 314, 332; Government 15, 24, 240, 241, 251a, 25b, 351.

1. PRIMARILY FOR UNDERGRADUATES

G. E. 14. Europe and the United States since 1500. For a complete description of this course, see *General Education.*

Required of all majors in the department.

Through the year. Tu. Th. S., 9.

11a. Medieval Europe. An introduction to European civilization from the Roman Empire to the Renaissance.

Half course. First semester. Tu. Th. S., 10.

Omitted 1950-51.

11b. The Renaissance in Europe. An analytical survey of the rise and early development of some elements of modern western civilization such as capitalism and the bourgeoisie, nationalism and the centralized state, rationalism aand naturalism, and the expansion of Europe.

Half course. Second semester. M. W. F., 11. Mr. Raeff

12. History of England. Dealing primarily with British history since the fifteenth century this course forms a background for the study of American history and English literature.

Through the year. Tu. Th. S., 8. Mr. Jordan

To be omitted, 1951-52 and in alternate years.

130a. Political History of the United States. A survey of political developments in the United States from the adoption of the Constitution to the New Deal.

Half course. First semester. Tu. Th. S., 9. Mr. Campbell

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

205a. Introduction to Political Philosophy. A study of the main trends of Western political thought with reference to their underlying social, political and economic realities.

Half course. First semester. Tu. Th. S., 10. Mr. Jordan

To be offered 1951-52 and in alternate years.

Omitted, 1950-51.

205b. Recent Political Thought. The conflicting ideologies of our time in their development since the French Revolution. Marxism, Fascism, and Nazism will be analyzed with especial reference to their challenge to liberal democracy.

Half course. Second semester. Tu. Th. S., 10. Mr. Jordan

To be offered 1951-52, and in alternate years.

Omitted, 1950-51

210a. Europe, 1648-1830. The development of the modern European states after the Peace of Westphalia with emphasis upon the background, course, and consequences of the French Revolution.

Half course. First semester. Tu. Th. S., 10. Mr. Lee

To be omitted, 1951-52 and in alternate years.

211. Europe Since 1830. The development of the major European nations with special emphasis on the period from 1870 to the present.

Through the year. Tu. Th. S., 11. Mr. Lee

To be offered 1951-52 and in alternate years.

Omitted, 1950-51

22a. Tudor and Stuart England. A survey of the period from 1485 to 1688 with particular attention to the social backgrounds of English literature and to the conditions leading to colonization of America.

Half course. Mr. Jordan

Omitted 1950-51.

221. England Since 1760. A general course, stressing the political, economic and social development of the modern commonwealth.

Through the year. Tu. Th. S., 8. Mr. Jordan

To be offered 1951-52 and in alternate years.

Omitted, 1950-51

225. HISTORY OF THE BRITISH EMPIRE. In the second semester the course will deal with developments and problems since 1900.

Through the year. Tu. Th. S., ~~10.~~ 11. MR. JORDAN
To be omitted 1951-52 and in alternate years.

23a. AMERICAN COLONIAL HISTORY TO 1776. This will include the European backgrounds of American history with particular reference to England, and the political, economic, and social development of the colonies.

Half course. First semester. Tu. Th. S., 11. MR. CAMPBELL
Omitted 1950-51.

230. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. Beginning with a brief survey of the European background of American ideas and institutions, this course deals with the main currents in American thought and society from colonial times to the present.

Through the year. Tu. Th. S., 10. MR. CAMPBELL
To be omitted 1951-52 and in alternate years.

231. ECONOMIC HISTORY OF THE UNITED STATES. See Economics 231, Department of Economics and Sociology.

MR. MAXWELL AND MR. CAMPBELL
Omitted, 1950-51.

232a. CONSTITUTIONAL HISTORY OF THE UNITED STATES. Major emphasis is placed on the historical development and the present interpretations of our basic law.

Half course. First semester. Tu. Th. S., 10. MR. CAMPBELL
Omitted 1950-51.

234. AMERICAN DIPLOMATIC HISTORY. The history of the foreign relations of the United States from 1783 to the present.

Through the year. M. W. F., 9. MR. HAYDEN
To be offered 1951-52 and in alternate years.
Omitted, 1950-51.

235b. THE UNITED STATES IN THE TWENTIETH CENTURY. A study of the chief influences in American civilization since 1900, with special attention to the emergence of current social and economic problems.

Half course. MR. CAMPBELL
Omitted 1950-51.

274b. THE MODERN FAR EAST. The course deals primarily with international relations in the region since 1895.

Half course. MR. HAYDEN
Omitted 1950-51.

281. HISTORY OF RUSSIA. From the origins of the Russian state to the present. Special attention is given to the development of Russian society and the ideological preparation of the Revolution.

Through the year. M. W. F., 10. MR. RAEFF
To be omitted 1951-52 and in alternate years.

HONORS CONFERENCE. A course for honors candidates, in which emphasis is put upon student reports and discussion.

Through the year. M., 3-5. THE STAFF

3. PRIMARILY FOR GRADUATE STUDENTS

30. DEPARTMENT SEMINAR. Introduction to bibliography and methods of research, and discussion of research problems being investigated by graduate students and faculty.

Required of all first-year graduate students in the department.
Half course, through the year. W., 4-6. THE STAFF

314. EUROPEAN INTERNATIONAL RELATIONS SINCE 1870. A study of the diplomatic history of Europe from the Franco-Prussian war to the Second World War.

Through the year. Th., 2-4. MR. LEE

315. TOPICS IN EUROPEAN INTERNATIONAL RELATIONS. Some period after 1871 is chosen for study by means of individual research and reports.

Through the year. Th., 3-5. MR. LEE AND MR. JORDAN
Omitted 1950-51.

321a. England in the Twentieth Century. The development of the United Kingdom from the time of its greatest power to its present struggle to maintain a world position.
Half course. First semester. M., 4-6. Mr. Jordan
Omitted 1950-51.

331. Problems in the History of the United States since 1900. An analysis of the fundamental factors making for change in American economic and political thought at the turn of the century is followed by an intensive study of political developments.
Through the year. M., 2-4. Mr. Campbell
Omitted 1950-51.

332. Introduction to Research in United States History. A study of the literature, sources, and principal problems.
Through the year. Tu. 2-4. Mr. Campbell

GRADUATE READING AND THESIS COURSES

31.	Reading	In the History and International Relations of Europe.	Mr. Lee
310.	Thesis		
32.	Reading	In the History and International Relations of England and the British Empire.	Mr. Jordan
320.	Thesis		
33.	Reading	In the History of the United States.	Mr. Campbell
330.	Thesis		
38.	Reading	In Early Modern and Slavic History.	Mr. Raeff
380.	Thesis		

GOVERNMENT

1. PRIMARILY FOR UNDERGRADUATES

15. Introduction to Government. After a consideration of the origin and theories of the state, the structure and functions of American government are studied, with some attention to the problems of modern administration.
Through the year. M. W. F., 12.
Mr. Cohen, assisted by Mr. Mahoney

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

24. International Relations. International rivalries in the 20th century examined, with attention to supposed or genuine national interests. Their worldwide nature is emphasized, and the failure of past efforts to establish order analyzed as a basis for estimating the practicality of modern policies and proposals.
Through the year. M. W. F., 11. Mr. Hayden

240. Seminar in International Relations. Group study of certain problems in contemporary affairs. Required of seniors in the international relations major; not open as an elective except to properly qualified graduate students with the instructor's permission.
Through the year. Tu., 3-5, and conferences.
Mr. Hayden, assisted by Mr. Joynt

241. International Law and Organization. A survey of historic doctrines of international law and their application to modern conditions is followed by a study of the various institutions created to handle international economic, social, and political problems, especially those concerned with the pacific settlement of disputes and the establishment of world order.
Through the year. M. W. F., 9. Mr. Hayden
To be omitted 1951-52 and in alternate years.

25b. Comparative Government. The governments and politics of Great Britain and the major European powers.
Half course. Second semester. M. W. F., 10. Mr. Cohen
To be omitted 1951-52 and in alternate years.

251a. American Political Parties. A study of the functioning of American party organizations, pressure groups, and the electorate in American politics. Emphasis is placed upon current problems and trends in the field.
Half course. First semester. M. W. F., 10. Mr. Cohen
To be omitted 1951-52 and in alternate years.

252a. INTRODUCTION TO PUBLIC ADMINISTRATION. An introductory examination of the role of administration in modern government, including problems of personnel administration, fiscal management, administrative regulation, and government organization.
Half course. Second semester. M. W. F., 10. MR. COHEN
Omitted 1950-51 and in alternate years.

3. PRIMARILY FOR GRADUATE STUDENTS

341. INTERNATIONAL RELATIONS SEMINAR. A study of contemporary problems by means of student research and reports.
Through the year. Tu., 4. MR. HAYDEN
Omitted 1950-51.

351. PROBLEMS IN AMERICAN GOVERNMENT. A study primarily by means of student research and discussion of selected contemporary problems in American government, including the legislative process, public opinion, and political parties.
Through the year. Tu., 2-4. MR. COHEN

GRADUATE READING AND THESIS COURSES

34. READING } IN INTERNATIONAL RELATIONS.
340. THESIS } MR. HAYDEN

35. READING } IN AMERICAN AND COMPARATIVE GOVERNMENT AND POLITICS.
350. THESIS } MR. COHEN

DEPARTMENT OF MATHEMATICS

Professor Bumer, Assistant Professor Stubbe, Mr. Stone, Mr. Christian

The department of mathematics offers courses leading to an undergraduate major in mathematics, courses necessary for the study of the physical sciences and courses for the student who wishes to learn about the fundamental concepts of mathematics primarily for their cultural value. Some of the courses offered are for advanced undergraduates and graduate students.

Courses 11, 12, 13 and 214 form the basis of a major in mathematics and are important for the study of the physical sciences. A major in mathematics normally includes one or two courses in mathematics in addition to the four courses above and two or three courses in an allied field of study such as physics, chemistry or philosophy.

DESCRIPTION OF COURSES IN MATHEMATICS FOR UNDERGRADUATES

11. Freshman Mathematics. Course 11 has for prerequisites one course in algebra and one course in plane geometry taken in the secondary schools, although at least three courses in secondary school mathematics are advisable. Careful attention is given to fundamental concepts and to the development of useful techniques. Topics in algebra, trigonometry and analytic geometry are introduced.

A qualified student may request permission to take an attainment test in subject matter of Course 11. If he passes such a test he may enter Course 12.

Through the year, M. W. F., 8 and 11; Tu. Th. S., 8 and 9.

Mr. Stubbe, Mr. Christian, Mr. Stone

12. Calculus. Course 12 introduces both the differential and integral calculus and is essential to further work in mathematics as well as to an understanding of many modern reports in the sciences. Topics from analytic geometry are studied as the need for them arises in the development of the calculus.

Prerequisite: Course 11 or its equivalent.

Through the year. M. W. F., 10 and 11.

Mr. Bumer, Mr. Christian

13. Differential Equations. The course in differential equations involves treatment of ordinary differential equations, with emphasis on the principal types of first and second order equations. Applications to geometry, physics, chemistry and mechanics are stressed.

Prerequisite: Course 12.
Through the year. Tu. Th. S., 9. Mr. Stubbe

15a. Theory of Equations. Algebraic equations and their roots are studied in the course in theory of equations. Polynomial equations are treated by means of exact and approximate methods and systems of linear equations are studied.

Prerequisite: Course 12.
Half course, first semester, M. W. F., 11.
Not offered 1950-51. To be offered 1951-52.

17. Mathematical Statistics. Topics discussed in Course 17 include frequency distributions, moments, test of significance, correlation, the theory of large and small sampling, hypothesis testing, and quality control. Although numerous applied problems are worked out in detail by the students, emphasis is placed on the mathematical theory.

Prerequisite: Course 12.
Through the year. M. W. F., 10.
Not offered 1950-51. To be offered 1951-52.

19a. Advanced Analytic Geometry. The course in advanced analytic geometry includes the study of planes and lines, transformation of coordinates and the general equation of the second degree.

Prerequisite Course 12.
Half course, first semester, M. W. F., 9. Mr. Christian
Offered 1950-51. Not offered 1951-52.

19b. Projective Geometry. The following topics are studied: homogeneous coordinates, principle of duality, linear transformations, cross ratio, curves and surfaces of the second order and second class.

Prerequisite: Course 19a.
Half course, second semester, M. W. F., 9. Mr. Bumer
Offered 1950-51. Not offered 1951-52.

110. General Education. Fundamental Concepts of Elementary Mathematics.

For description of this course see courses listed under General Education.

FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

214. Advanced Calculus. In the course in advanced calculus the following topics are among those studied: complex numbers, partial differentiation, infinite series, vector analysis, multiple and line integrals. Emphasis is placed on the uses to which the topics can be put in the sciences and engineering.

Prerequisite: Course 12.
Through the year. Tu. Th. S., 11. Mr. Stubbe

215b. Modern Algebra. Course 215b offers an introduction to modern algebraic systems, such as groups, rings, and fields. The emphasis will be on developing in the student the modern axiomatic point of view. To this end considerable attention will be given to the nature and constructon of a formal proof and to the problem of meaning in mathematics..

Prerequisite: Course 12.
Half course, second semester. M. W. F., 11. Mr. Christian
Not offered 1950-51. To be offered 1951-52.

216a. Introduction to Complex Variables. The course in complex variables affords an introduction to analytic functions, line integrals, conformal mapping. Considerable attention is given to mathematical rigor and many examples are studied to illustrate applications.

Prerequisite or taken concurrently: Course 214.
Half course, first semester. M. W. F., 12. Mr. Bumer
Not offered 1950-51. To be offered 1951-52.

216b. Advanced Differential Equations. Some partial differential equations of mathematical physics, Fourier Series and boundary value problems, systems of ordinary differential equations are studied.

Prerequisite: Course 13.

Half course, second semester. M. W. F., 12. Mr. Bumer

Not offered 1950-51. To be offered 1951-52.

218. Introduction to Analysis. In course 218 the following topics are studied: the structure of the system of real numbers, algebra of sets, cardinality, sequences and series and certain theorems concerning functions of a real variable. An introduction is made to the study of measure and the Lebesgue integral.

Prerequisite: Course 12.

Through the year. M. W. F., 12.

Messrs. Bumer, Stubbe, Christian

Offered 1950-51. Not offered 1951-52.

COURSES IN PHILOSOPHY

Professor Jefferson, Mr. Beck

Courses in philosophy are designed to broaden the student's perspective and help him trace the relations among the various fields of knowledge. They are designed primarily for general education and normally students are not accepted as majors in this field of study.

Philosophy 11a. Logic and Scientific Method. The principles of valid reasoning and inductive methods; the application of these principles and methods to the problems of the natural and social sciences, and the consideration of the relation between logic and problems of value.

Open to freshmen.

Half course, first semester. Tu. Th. S., 11. Mr. Beck

Philosophy 11b. Problems of Philosophy. The nature and method of philosophy. The application of philosophical method to contemporary personal and social problems. A detailed analysis of some typical problems in the various fields of philosophy.

Open to freshmen.

Half course, second semester. Tu. Th. S., 11. Mr. Beck

Philosophy 12. History of Philosophy. The movements of philosophical thought from the early Greeks to the present day. First semester: Greek and Medieval Philosophy. Second semester: Modern Philosophy.

Not open to freshmen.

Divisible course, with consent of the instructor.

Three hours, through the year. Tu. Th. S., 9. Mr. Jefferson

Philosophy 13a. Problems of Ethics. A constructive study of important ethical theories. Designed to acquaint the student with the problems and scope of ethics, and to aid him in the formulation of an ethical outlook.

Open to Juniors and Seniors.

Half course, first semester. Tu. Th. S., 10. Mr. Beck

Philosophy 13b. Social Philosophy. A critical and comprehensive study of the principles underlying social structure and functions. The examination of the goals, purposes, norms, and ideals of social process, and the relation of that process to the individual good.

Open to Juniors and Seniors.

Half course, second semester. Tu. Th. S., 10. Mr. Beck

Philosophy 14. Contemporary Philosophy. An intensive study of important thinkers representative of modern developments in philosophy, together with emphasis on the historical roots of their thought.

Prerequisite: One and one half courses in philosophy, including Philosophy 12; or permission from the instructor.

Divisible course, through the year.

Tu. Th., 2. Mr. Jefferson and Mr. Beck

DEPARTMENT OF PHYSICS

PROFESSOR ROOPE, ASSISTANT PROFESSOR GUNTER

UNDERGRADUATE WORK

The department offers fundamental courses required in preparation for the study of chemistry, biology, meteorology and allied sciences, medicine, dentistry, engineering and science teaching, as well as courses leading to professional or graduate work in physics.

The requirement for a major in physics consists of Physics 11, two courses from Physics 15, 16, 17, 18, 124, either Physics 22 or 23, Mathematics 11 and 12, and Chemistry 11. In addition to electives in Physics, Mathematics 13 and 14 and Chemistry 19 are desirable. Students preparing for graduate work should also obtain a good reading knowledge of French and German while in college.

Physics 11 or its equivalent is the normal prerequisite for all other courses in the department. Courses numbered 15 or higher, except 17 and 124, require the use of calculus and should not be elected without consulting the instructor in charge. Courses 15 and 17 each require a limited amount of laboratory work to be done at the discretion of the instructor and at such times as will not interfere with regularly scheduled courses.

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board to work leading to the degree of Master of Arts.

COURSES IN PHYSICS

During the academic year 1950-51 the following courses were given: 10, 11, 17, 18a, 18b, 124, 22, 26, 31, 300.

During the academic year ~~1950-51~~ 1951-52 the following undergraduate courses will be offered: 10, 11, 15, 16, 17, 23.

PRIMARILY FOR UNDERGRADUATES

G. E. 10—An introduction to physical science. See section on General Education.

11. General Physics. Mechanics, heat, electricity and magnetism, wave motion, sound, and light.
Indivisible course.
Open to freshmen.
Through the year. Tu. Th. S., 8; M. or Th., 2. Mr. Gunter

13. History of Physics. Mr. Roope
Omitted, 1950-51.

15. Heat and Thermodynamics. This course includes a study of thermometry, calorimetry, the thermal properties of matter in the solid, liquid and gaseous states, the laws of thermodynamics, and applications to a wide range of phenomena.
Prerequisites: Physics 11 and Mathematics 12.
Through the year. M. W. F., 11. Mr. Roope
Omitted 1950-51.

16. Optics. The first semester is devoted to a study of the principles of geometrical optics and their application to various optical instruments, including ground and aerial cameras. The second semester is devoted to the principles and application of physical optics.
Prerequisites: Physics 11 and Mathematcs 12 (may be taken concurrently).
Through the year. Tu. Th. S., 9. Tu. or Th., 2. Mr. Gunter
Omitted 1950-51.

17. Introduction to Modern Physics. An elementary treatment of physical experiment and theory of the past fifty years including the more recent atomic and nuclear developments.
Through the year. M. W. F., 9. Mr. Roope

18a. Theoretical Spectroscopy. The origin of line and band spectra in both emission and absorption spectrophotometry is treated.
Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently). Physics 16 and 17 are desirable but not required.
Half course. First semester. Tu. Th. S., 9. Mr. Gunter

18b. Experimental Spectroscopy. The theory and applications of the optical and electrical instruments used in an experimental spectroscopy are discussed. The student will become familiar with the use of prism and grating spectrographs, micro-densitometers, interferometers, and their associated photographic and electrical techniques. The principles of spectrochemical analysis are included in this course.

Prerequisites: Physics, 16 or Physics 18a, and Mathematics 12 (may be taken concurrently). Physics 17 is desirable but not required.

Half course. Second semester. Tu. 9; Tu. Th., 2. Mr. Gunter

124. Fundamentals of Electronics. This is a first course in electronics designed to give a broad, largely non-mathematical, background for the understanding of electron tubes and their associated circuits. The application of modern electronic devices to the fields of physics, chemistry, biology, meteorology, and navigation is discussed.

Prerequisite: Mathematics 11.

Through the year. Tu. Th. S., 10; Tu. or Th., 2. Mr. Gunter

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

22. Theoretical Mechanics.

Prerequisite: Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. M. W. F., 11. Mr. Roope

23. Electricity and Magnetism. The fundamental laws of electric and magnetic circuits and fields are treated. The elements of electromagnetic wave propagation and their application to antenna design are included in this treatment.

Prerequisites: Physics 11 and Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. Tu. Th. S., 10; Tu. or Th., 2. Mr. Gunter
Omitted 1950-51.

24. ADVANCED ELECTRONICS. This course is a detailed theoretical study of certain electronic phenomena from a mathematical point of view.

Prerequisites: Physics 23 and Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. Tu. Tr. S., 11. MR. GUNTER
Omitted 1950-51.

25. HONORS COURSE. Theoretical and/or experimental work in mechanics, thermodynamics, or nuclear physics. MR. ROOPE

25. HONORS COURSE. Theoretical and/or experimental work in optics, electronics, or spectroscopy. MR. GUNTER

3. PRIMARILY FOR GRADUATE STUDENTS

31. THEORETICAL PHYSICS. Double course. MR. ROOPE
300. RESEARCH IN EXPERIMENTAL PHYSICS. THE STAFF
301. RESEARCH IN THEORETICAL PHYSICS. THE STAFF

DEPARTMENT OF PSYCHOLOGY

PROFESSOR WERNER, PROFESSOR AFFILIATE WEINREB, ASSOCIATE PROFESSOR BELL, ASSOCIATE PROFESSOR ALPER, ASSOCIATE PROFESSOR WAPNER, ASSOCIATE PROFESSOR AFFILIATE MEYER, ASSOCIATE PROFESSOR AFFILIATE PHILLIPS, ASSOCIATE PROFESSOR AFFILIATE WYATT, ASSISTANT PROFESSOR GWINN, VISITING LECTURER SCHAFER, VISITING LECTURER GOLLIN.

The psychological laboratories at Clark University were established by G. Stanley Hall immediately after the founding of the University, and constituted one of the first adequately appointed laboratories in this field in America. These laboratories increased rapidly in size and in research possibilities for experimental psychology, and have recently been remodeled in accordance with present needs. From the outset this research emphasis on experimental psychology was supplemented by work in child study, educational psychology, and mental hygiene. In recent years a comprehensive training program in clinical psychology has been added. Broad integrated training in psychology is stressed, with special concentration being provided in the areas of child and genetic, clinical, and general experimental psychology.

UNDERGRADUATE WORK

The undergraduate curriculum is designed to meet the needs of: (1) students majoring in psychology; (2) majors in related field; (3) students wishing an orientation to the field of psychology for general cultural development.

Majors are required to take Psychology 11a, 11b, and Psychology 212. Psychology 11a and 11b are prerequisite to all subsequent courses, with the exception of Psychology 190b. Students preparing for graduate work should obtain a reading knowledge of French and German.

GRADUATE WORK

Work is offered in the department leading to the degrees of Master of Arts and Doctor of Philosophy. In order to be admitted to the department for a higher degree, the applicant must have a bachelor's degree based upon a distinguished college record. Where the department feels that a student lacks the necessary undergraduate preparation in psychology and related fields, specific courses of study will be prescribed.

THE DEGREE OF MASTER OF ARTS. To qualify for the degree of Master of Arts in psychology the student must demonstrate competence in representative areas of psychology. The customary program is five courses, including experimental psychology, statistical methods, and three additional courses supplemented by the writing of a thesis in the area of special interest.

THE DEGREE OF DOCTOR OF PHILOSOPHY. Only students who give evidence of high scholastic attainments will be encouraged to proceed to the degree of Doctor of Philosophy. The obtaining of a Master of Arts degree does not automatically admit the student to the doctoral program. The general requirements for the doctor's degree, other than those for specialization in clinical psychology, include the following. The student is required to pass with distinction five courses during the first year of graduate study and a minimum of two courses during the second year of study. At the end of the second year he is required to demonstrate his competence in psychology by passing with distinction preliminary examinations in the field of psychology as a whole and in an area of specialization. At the present time examinations in the general field include history and systems of psychology, experimental psychology, genetic psychology, learning, normal and abnormal personality, and statistics. In addition, the student is required to demonstrate his ability to conduct independent research as evidenced by the presentation of an acceptable thesis. For formal thesis requirements and language requirements, see the general statement concerning advanced degrees (See pages 53 and 54). At a final oral examination a student is required to defend his thesis and to show his competence in the general field of psychology and in his special area of concentration.

THE PROGRAM IN CLINICAL PSYCHOLOGY. The department offers a four-year program in clinical psychology leading to the degree of Doctor of Philosophy. For this degree the same standards of proficiency in the general field of psychology as mentioned above apply.

In addition the student will be required to demonstrate mastery of the use of clinical methods. Provision is made for a wide variety of practical experiences in cooperating institutions, clinics, and agencies. V. A. and U. S. Public Health Service Training Stipends are available for outstanding students.

A minimum of one year of internship, or its equivalent, is included in this four-year program. Among the institutions and agencies cooperating in providing practicum and research facilities are: Bedford V. A. Hospital; Boston V. A. Mental Hygiene Clinic; Camp Wideko; Children's Hospital, Boston; Clark University Psychological Clinic; Cushing V. A. Hospital; Hartford V. A. Mental Hygiene Clinic; Newington V. A. Mental Hygiene Clinic; Northampton V. A. Hospital; Family Service Organization of Worcester; Worcester Boys' Club; Worcester Girls' Club; Worcester Youth Guidance Center; Worcester State Hospital; and certain schools. Internships may be arranged in other selected hospitals and clinics.

During the first two years the student will include in his program courses basic to a thorough understanding of psychology as well as specialized courses in clinical psychology. He will be required to take the regular preliminary examinations; in this case the examination in the area of specialization will be in clinical psychology.

Research for the dissertation should normally be started during the year of internship and be completed during the fourth year at the University.

In light of the costs of supervision and other special services in connection with instruction in the clinical psychology program, the tuition is $500 per academic year in this program.

COURSES IN PSYCHOLOGY

During the academic year 1950-51, the following courses in psychology were given: 11, 170a, 190b, 200b, ~~202b,~~ 203a, 203b, 209a, 212, 215a, 300, 301a, 301b, 302a, 302b, 303, 305, 306b, 313, 315a, 317, 318, 319b, ~~324a,~~ 325a, 330b, 331, 335 339, 340, 350, 361, 362, 363, 366, 377.

1. PRIMARILY FOR UNDERGRADUATES

11a. General Psychology. An introduction to the principles of human behavior.

Half course. First semester. Tu. Th. S., 8. Mr. Wapner

11b. General Psychology.

Prerequisite: Psychology 11a.

Half course. Second semester. Tu. Th. S., 8. Mr. Wapner

170a. Introduction to Child Psychology. An introductory course in child psychology with special emphasis on factors affecting the social development of the young child.

Half course. First semester. M. W. F., 12. Mrs. Alper

172b. Personality Development. This course will deal with a number of the determinants of personality formation including both constitutional determinants and culturally imposed factors. Current theories of personality development will be surveyed and the application of these theories to the study of personality will be discussed.

Half course. Second semester. M. W. F., 12. Mrs. Alper

190b. Applied and Industrial Psychology. The application of psychological techniques to the problems of business and industry.
Prerequisite: Psychology 11a.
Half course. Second semester. Tu., 3-5, Th., 4-5. Mr. Gollin

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200b. Social Psychology. A survey of current knowledge about the role of the social environment in the determination of individual behavior.
Half course. Second semester. ~~W. F., 2-3:30.~~ T. Th. S., 10 Mr. Gwinn

203a. The Abnormal Personality. The course will be devoted to a study of the development of the abnormal personality and a survey of the major types of abnormal behavior.
Prerequisite: Psychology 172b.
Half course. First semester. M. W., 1:30-3. Mr. Bell

203b. Introduction to Clinical Psychology. A survey of the theoretical background of the field of clinical psychology.
Prerequisite: Psychology 203a.
Half course. Second semester. M. W., 1:30-3. Mr. Bell

209a. Developmental and Child Psychology. A survey of the principles of development and the problems of child psychology.
Prerequisite: Psychology 11 plus one additional semester course in psychology.
~~Through the year.~~ W. F., ~~10~~ 9. Third hour to be arranged for undergraduates. Mr. Werner
Two hours, first semester

212. Experimental Psychology. A general survey of experimental psychology with the aim of acquainting the student with scientific methods and laboratory technique.
Through the year. Lecture: Tu. Th., 11.
Laboratory: Section A: Tu., 1:30-5.
Section B: Th., 1:30-5. Mr. Wapner

215a. Physiological Psychology. Physiological methods of investigating the mechanisms underlying psychological processes.
Half course. First semester. Tu. Th. S., 10.
Offered in alternate years. Omitted 1951-52. Mr. Gwinn

216a. Learning and Motivation. The role of learning and motivation in behavior.
Half course. First semester. Tu. Th. S., 10.
Offered in alternate years. Offered 1951-52. Mr. Gwinn
Omitted, 1950-51.

3. PRIMARILY FOR GRADUATE STUDENTS

300. Genetic Psychology. A seminar on the basic principles of genetic psychology.
Through the year. Th., 9-11. Mr. Werner

301a. Psychological Diagnosis of Children. Introduction to problems and methods.
First semester. Tu., 2-4. Miss Meyer

301b. Introduction to the Rorschach Test. Introduction to the Rorschach method of personality diagnosis.
Second semester. Th., 7-9 p.m. Mr. Wyatt

302a. Study of Personality Through Projective Techniques. The theory of and supervised practice in projective techniques of personality diagnosis.
First semester. Th., 3:30-5:30. Mr. Phillips

Rorschach Technique II
302b. ~~Integration of Case Material.~~ The theory of and practice in techniques of integrated clinical analysis. (For 2nd yr. grad. students only)
Second semester. Th., 3:30-5:30. Mr. Phillips

303. Psychological Interviewing and Counseling. A study of various methods of interviewing and counseling, with practice in case work.
Through the year. F., 10-12. Mr. Bell

305. Advanced Experimental Psychology. A study of experimental methodology and techniques. In the first semester attention will be given to problems of perception, and, in the second semester, to memory, concept formation and reasoning.

Through the year. Lecture: F., 2-4. Mr. Werner
Laboratory: To be arranged. Mr. Werner and Mr. Wapner

306a. The Thematic Apperception Test. The clinical use and interpretation of thematic productions; the clinical significance of fantasy.

First semester. Th., 7-9 P.M. Mr. Wyatt
To be, Offered 1951-52.
Omitted, 1950-51

306b. Psychological Diagnosis of Children, advanced course. Special problems and case studies.

Second semester. Tu., 2-4. Miss Meyer

313. Statistical Methods. The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in psychological research.

Through the year. W., 4-6. Mr. Jones

314b. Experimental Social Psychology. A laboratory course in which the principles of scientific investigation are applied to problems in social psychology. In addition to performing a number of standard experiments in social psychology students will also do original research. Areas of experimentation will include topics such as suggestion, the measurement of attitudes, group vs. individual thinking, rumor and opinion polling.

Second semester. W., 1:30-3:30. Mrs. Alper
Offered in alternate years. Offered 1951-52.
Omitted, 1950-51

315a. Experimental Methodology and Design. A consideration of general experimental methodology in psychology with special reference to the problems of research planning and experimental design. Various fields will be drawn upon for illustrations.

First semester. W., 4-6. Mr. Wapner

316. Psychoanalytic Approach to Deviant Behavior. A study of the development of emotional symptoms from the psychoanalytic point of view.

Through the year. F., 10-12. Mr. Weinreb

Offered in alternate years. Offered 1951-52. Omitted, 1950-51

317. Methods of Psychotherapy, advanced course. The course includes a study of various methods of psychotherapy and their application to actual cases.

Through the year. F., 10-12. Mr. Weinreb

Offered in alternate years. Omitted 1951-52.

318. Dynamics of Personality. Emphasis will be placed on the dynamics common to both normal and abnormal manifestations of personality defenses. The first part of the course will consist of a consideration of normal personality development and personality theory. The latter part will be devoted to a survey of the main types of abnormal behavior, including psychoses, psychoneuroses, psychosomatic disorders, character disorders, hypnosis, and allied phenomena.

Through the year. W., 1:30-3:30.

First semester. Mrs. Alper

Second semester. Mr. Schafer

319b. Experimental Dynamic Psychology. A laboratory course in which the principles of scientific investigation are applied to problems in dynamic psychology. In addition to performing a number of standard experiments students will also do individual research.

Second semester. W., 1:30-3:30. Mrs. Alper

Offered in alternate years. Omitted 1951-52, 1950-51

320a The Field of Projective Techniques, Advanced Course. Diagnosis and research with projective methods such as the Word-Association Test, Szondi Test, Expressive Movement Techniques, Play Techniques, etc.

First semester. F., 2-4. Omitted, 1950-51. Mr. Bell

To be offered in 1951-52, and alternate years.

324a. PSYCHOPATHOLOGY AND CULTURE. Discussion of selected studies dealing with the interrelationship of the pathology of personality with the problems and trends of contemporary culture. Case material will be used for illustration.
First semester. Th., 7-9. MR. WYATT
Offered in alternate years. Omitted 1951-52, 1950-51.

325a. CULTURE AND PERSONALITY. The relation of culture to needs, to social relationships and groups, and to geographical factors; the similarity in basic plan but diversity in specific content of cultures; the processes underlying culture change; the interaction of learning, society, culture, and personality.
First semester. Tu., 7-9. STAFF AND SPECIAL LECTURERS

330b. PSYCHOLOGY OF LANGUAGE BEHAVIOR. A seminar on basic problems pertinent to the experimental study of language.
Second semester. Hours to be arranged. MR. WERNER

331. THE PSYCHOLOGY OF LEARNING. Theoretical viewpoints and experiments in the field of learning.
Through the year. Th., 7-9 P.M. MR. GWINN

335. SOCIAL PSYCHOLOGY. Topics to be considered in this course are: Opinion Research; Propaganda, Rumor; Group Dynamics; Orientation and Theoretical Problems in Social Psychology.
~~Second semester.~~ Tu., 7:30-9:30 P.M. VISITING LECTURERS

339. HISTORY AND SYSTEMS OF PSYCHOLOGY. The historical development of psychological methods, concepts and theories.
Through the year. W., 9-11. MR. GWINN

340. DEPARTMENTAL COLLOQUIUM.
THE STAFF, GRADUATE STUDENTS AND VISITING SPEAKERS

345. SEMINAR IN CURRENT PSYCHOLOGICAL LITERATURE.
Through the year. Tu., 7-9. STAFF OF THE DEPARTMENT

350. RESEARCH IN PSYCHOLOGY. Individual direction of students in their research projects. STAFF OF THE DEPARTMENT

FIELD WORK COURSES IN CLINICAL PSYCHOLOGY

(Hours to be arranged)

361a. Required in Conjunction with 301a. Miss Meyer

361b. Required in Conjunction with 301b. Mr. Wyatt

363. Required in Conjunction with ~~302a, 302b, and~~ 303. Mr. Bell and Mr. Phillips

362 Required in conjunction with 302 Mr. Phillips

366a. Required in Conjunction with 306a. Mr. Wyatt

366b. Required in Conjunction with 306b. Miss Meyer

377. Required in Conjunction with 317. Mr. Weinreb

NON-CREDIT WORKSHOPS

1. Advanced Workshop in Psychological Statistics: Selected problems in small sample theory.
   Visiting Lecturers
2. Workshops in Clinical Methodology.
   Visiting Lecturers
3. Lectures on Physiological and Medical Aspects of Mind-Body Relationships.
   Worcester State Hospital Staff Members and Visiting Lecturers

DEPARTMENT OF ROMANCE LANGUAGES

Associate Professor Reid, Associate Professor Nicol,
Assistant Professor King, Assistant Professor Ramsey,
Mr. MacQueen

Courses offered in the languages and literatures of France, Spain, and Spanish America have been planned to provide:

1) an adequate foundation for graduate study or teaching either French or Spanish, or both;
2) an extensive reading knowledge of both languages, essential for carrying on advanced study in natural sciences, social sciences, and the humanities, and for fulfilling the language requirement for the degree of Bachelor of Arts;
3) a competent speaking knowledge of both languages.

A major in Romance Languages must comprise:

1) four full courses to be chosen from among the following:
    French 13, 114, 123b, 125, 126
    Spanish 13, 114, 115, 123b
    Romance Languages 124a
2) French 113 or the equivalent.
3) General Education 14, or the equivalent, to be completed by the end of the sophomore year.
4) at least one course, to be approved by the department, in non-Romance literature.

Students majoring in Romance Languages are expected to acquire a thorough knowledge of either French or Spanish and a competent, knowledge of the other, both in language and in literature.

If at least two units of elementary Latin or elementary Greek have not been accepted for admission to college, the Romance Language major must satisfy the classics requirement as prescribed on Page 67.

Students desiring a degree with honors in Romance Languages should consult with the department for a statement of the required program of studies.

Students intending to major in Romance Languages should consult Mr. Reid.

French

During the academic year 1950-51 the following courses in French were given: 11, 12, 13, 14, 114, 123b, 126, and Romance Languages 124a.

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. For beginners. The elements of grammar and pronunciation; extensive, carefully graded reading; exercises in speaking and writing simple French.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 10; Tu. Th. S., 11. Mr. King

12. Intermediate. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading in a variety of modern texts.

Prerequisite: French 11 or the equivalent, to be determined by a placement test.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 8 and 12; Tu. Th. S., 8. Mr. MacQueen

13. Third-year Oral and Written French. A rapid intensive review of grammar; the elements of phonetics; exercises in composition and pronunciation; conversational practice. Course 13 is conducted largely in French.

Prerequisite: Grade of B— or higher in French 12, or equivalent skill in the language, to be determined by a placement test. Admission is subject to the approval of the instructor.

Open to freshmen.

Through the year. M. W. F., 9 and M., laboratory 1 to 3. Mr. Reid

14. Readings in French Literature. The aim of French 14 is two-fold: the attainment of facile reading ability and the appreciation of at least ten works selected from various periods and chosen for their literary excellence and universal appeal.

Prerequisite: French 12 or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. M. W. F., 9 and 11; Tu. Th. S., 11.

MR. NICOL

113. INTRODUCTION TO FRENCH CIVILIZATION. A selective survey of the history, art, literature and music of France, from the Middle Ages to the present time. An elementary reading knowledge of French is desirable but not required. Admission is subject to the approval of the instructor.

French 113 may be counted in fulfillment of the general requirement in art, music and literature, but not toward fulfillment of the requirement in foreign language.

Through the year. Tu. Th. S., 11. Some meetings are held in the Worcester Art Museum. MR. NICOL

Omitted 1950-51. Offered in alternate years.

114. GENERAL VIEW OF FRENCH LITERATURE. An interpretation of the main currents of French literature from the beginnings of writing in the vernacular to the present day. Each period will be studied by concentrating attention on a limited number of works and authors best bringing to focus the characteristics of the period.

Prerequisite: Grade of B– or higher in French 13 or 14 or the equivalent.

Through the year. Tu. Th. S., 10. MR. KING

125. PRINCIPAL PROSE GENRES. Detailed study of the novel, the short story and the essay, as exemplified by the chief works in each genre from the Middle Ages to the present. Some attention will also be given to the writers of maxims, memoirs and letters. Conducted in French.

Prerequisite: Grade of B– or higher in French 114 or the equivalent.

Through the year. Tu. Th. S., 9. MR. NICOL

Omitted 1950-51. Offered in alternate years.

126. Poetry and Drama. Intensive study of the principal monuments of each genre, from the Middle Ages to the present. Conducted in French.

Prerequisite: Grade of B– or higher in French 114 or the equivalent.

Through the year. Tu. Th. S., 9. Mr. Nicol

To be omitted 1951-52. Offered in alternate years.

123b. Advanced Language. Advanced composition and special study of grammatical topics.

Prerequisite: Grade of B– or higher in French 13. Romance Languages 124a is desirable but not required

Half course. Second semester. Mr. MacQueen

Offered when the demand warrants.

Romance Languages 124a. Comparative French and Spanish Phonetics. The elements of general phonetics. A detailed study of the pronunciation of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: Grade of B– or higher in French 13 or Spanish 13.

Half course. First semester. M. W., 10, and F., laboratory, 1 to 3. Mr. Reid

To be omitted 1951-52. Offered in alternate years.

Spanish

During the academic year 1950-51 the following courses were given: 11, 12, 13, 14, and Romance Languages 124a.

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. For beginners. The elements of grammar and pronunciation; extensive, carefully graded reading in both the Spanish and Spanish-American fields. Exercises in speaking and writing.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 11; Tu. Th. S., 11. Mr. Reid

12. INTERMEDIATE. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading of texts dealing with Spain and Spanish America.

Prerequisite: Spanish 11, or the equivalent, to be determined by a placement test.

Indivisible course.

Open to freshmen.

Through the year. Tu. Th. S., 10 and M. W. F., 8.

MR. MACQUEEN AND MR. RAMSEY

13. THIRD-YEAR ORAL AND WRITTEN SPANISH. A rapid intensive review of grammar; the elements of phonetics; exercises in composition and pronunciation; conversational practice. Course 13 is conducted largely in Spanish.

Prerequisite: Grade of B— or higher in Spanish 12, or equivalent skill in the language, to be determined by a placement test. Admission is subject to the approval of the instructor.

Open to freshmen.

Through the year. M. F., 11, and W., laboratory, 1 to 3.

MR. RAMSEY

To be omitted 1951-52. Offered in alternate years.

14. READINGS IN SPANISH AND SPANISH-AMERICAN LITERATURE. The aim of Spanish 14 is two-fold: the attainment of facile reading ability and an appreciation of some outstanding examples of Spanish and Spanish-American literature.

Prerequisite: Spanish 12, or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. M. W. F., 10; Tu. Th. S., 8. MR. RAMSEY

114. THE LITERATURE OF SPAIN. A general view of Spanish literature with emphasis on the study of the origins and development of the novel and drama, culminating in the masterworks of the nineteenth century. Necessary attention will be given to political and cultural background.

Prerequisite: Grade of B– or higher in Spanish 13 or 14 or the equivalent.

Through the year. M. W. F., 11. MR. RAMSEY

Omitted 1950-51. Offered in alternate years.

115. SPANISH-AMERICAN LITERATURE. The principal literary trends in Spanish America from the colonial period to the present day. Special emphasis will be placed on novels and short stories important to the understanding of the nature and problems of life in Latin America.

Prerequisite: Grade of B– or higher in Spanish 13 or 14, or the equivalent.

Through the year.

Omitted 1950-51. Offered when the demand warrants.

123b. ADVANCED LANGUAGE. Advanced composition and special study of grammatical topics.

Prerequisite: Grade of B– or higher in Spanish 13, and preferably Romance Languages 124a.

Half course. Second semester.

Omitted 1950-51. Offered when the demand warrants.

ROMANCE LANGUAGES 124a. COMPARATIVE FRENCH AND SPANISH PHONETICS. The elements of general phonetics. A detailed study of the pronunciation of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: Grade of B– or higher in French 13 or 112, or Spanish 13.

Half course. First semester. M. W., 10, and F., laboratory, 1 to 3. MR. REID

To be omitted 1951-52. Offered in alternate years.

COURSES IN RUSSIAN

These courses are offered to enable students to acquire a reading knowledge of the language.

RUSSIAN 11. ELEMENTARY RUSSIAN. Basic grammar and vocabulary.

Through the year. M.W.F., 12. MR. RAEFF

RUSSIAN 12. INTERMEDIATE RUSSIAN. Advanced grammar. Reading and conversation.

Through the year. W. F., 3-4:30 MR. RAEFF

COURSES IN SOCIOLOGY

A description of the offerings in Sociology will be found on Page 122.

COURSES IN SPANISH

A description of the offerings in Spanish will be found on Pages 181-3.

The Summer Term

JULY 5 TO AUGUST 18

A six-week summer school was established in 1921, primarily to serve teachers who were employed during the regular academic year. Its organization and its offerings were relatively independent of the general university program.

The national emergency beginning in 1941 made it desirable to provide opportunities for college students to complete their requirements for a bachelor's degree in as short a time as possible. Accordingly the summer school was lengthened to twelve weeks and made an integral part of the college program. With the passing of the emergency and with the demands for acceleration decreasing, the twelve-week summer was discontinued at the close of the 1949 session.

For the summer of 1950 a return was made to a summer school slightly more than six weeks long, extending from July 5 to August 18. Work was offered in Economics, Education, English, Geography, and History and International Relations. A *core theme,* American Citizenship, was selected. Studies were knit together by a *core course* under the title *Social Factors in American Citizenship.* A workshop in each participating field and also supplementing courses completed the program. Election of the core course was not obligatory. The work of the summer school was planned especially for graduate students, undergraduates at the junior and senior levels, and teachers at the secondary school or college level. A somewhat similar program will be offered for the Summer of 1951 unless the international situation demands its modification.

Work done in the summer term may be counted toward the fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Business Administration, Master of Arts, and Doctor of Philosophy. Certain courses may also be carried as free electives toward the degree of Bachelor of Business Administration. A graduate student should secure the explicit approval of his major department for any program undertaken during the summer term.

Unless otherwise announced, subjects are presented in half courses.

A half course, equivalent to three semester hours, involves five sixty-minute periods per week, or their equivalent, throughout six weeks. A normal program is two subjects carried concurrently.

Tuition charges, for a normal program, are $90.00 for the term. The charge for a single subject is $45.00.

Dormitory accommodations for both men and women are available at reasonable rates.

The Summer Term Bulletin contains descriptions of the various courses to be offered and may be had upon application to THE DEAN OF THE COLLEGE, CLARK UNIVERSITY, WORCESTER 3, MASSACHUSETTS.

COURSES OFFERED IN THE SUMMER TERM OF 1950

Courses are identified by number. The letters "a" and "b" following a course number indicate that the course is offered for the first session or for the second session respectively. Any particular course bears the same identifying number whether it is offered during the regular academic year or in the summer term. Courses primarily for undergraduates have numbers beginning with the figure "1," those for advanced undergraduates and graduate students, with the figure "2," and those primarily for graduate students, with the figure "3."

The following courses were given during the 1950 summer term.

THE CORE COURSE

SS. 299.	Social Factors in American Citizenship	MESSRS. JONES AND WARMAN with the cooperation of the other members of the Summer School Staff

ECONOMICS

SS. 240.	Workshop—Current Economic Problems of the United States	MR. BRANDENBURG
SS. 24.	Economic History of the United States	MR. BRANDENBURG

EDUCATION

SS. 215b.	Workshop in Character and Citizenship Development	Mr. Jones
SS. 206b.	Teaching the Social Studies: Methods and Curriculum	Charles L. Peltier
SS. 231.	The Secondary School Program: Integrating the Curricular and Extra-Curricular Activities	Mr. Peltier
SS. 212.	Guidance in Secondary Schools	Mr. Lane

ENGLISH

SS. 115.	Workshop—Significant Biographical Works in American Literature	Mr. Anderson
SS. 111.	A Survey of American Literature	Mr. Anderson

GEOGRAPHY

SS. 20b.	Workshop—Geography in Education	Mr. Warman
SS. 32b.	Climatology II	Mr. Van Valkenburg
SS. 202.	American Problems in Political Geography	Mr. Van Valkenburg
SS. 262.	Economic Geography of the United States	Mr. Murphy
SS. 261.	Urban Geography	Mr. Murphy
SS. 191.	Cartography	Mr. Burnham

HISTORY

SS. 23.	Workshop—Problems in American Social History	Mr. Campbell
SS. 235.	The United States in the 20th Century	Mr. Campbell

The Degree of Bachelor of Education

The Degree of Bachelor of Education has been offered primarily to teachers in the Worcester school system and to those in nearby towns since 1923. A condition for admission to candidacy for the degree is completion of a two-year normal school course, or its equivalent. A year of professional, full-time teaching experience is a prerequisite for the degree.

Since the State Teachers College of Worcester began granting a bachelors degree the reasons for offering such a degree have largely ceased to exist, and there has been a material shrinkage in the number of candidates.

At present new candidates may be accepted, if at all, only after special action.

Degrees Conferred

IN THE CALENDAR YEAR 1950

BACHELOR OF ARTS (170)

May Ingrid Alltsrom
Dario Mario Ambrosini
Carol Theresa Amsden
Virginia Rita Amsden
Charles Oscar Anderson, Jr.
Janet Marie Anderson
Jean Harriet Anderson
Roger Burnett Anderson
Margaret Mary Ash
Margery Jane Asher
Eileen Barnett
George Milton Berg
George Bondra
William Joseph Brown
Charles Stephen Burke
Symme Hilda Burstein
(with Highest Honor in General Course)
Raymond John Caefer
(with Highest Honor in General Course and with Honors in Romance Languages)
William Melvin Capen
(with Honors in Romance Languages)
Robert Bruce Carlisle
(with Honors in History and International Relations)
Martha Jane Carlson
Blanche Ellen Caron
Henry Joseph Ciborowski
Howard Leslie Clark
1 > Stanley Francis Clement
Edward Hartnett Conway
(with Highest Honor in General Course)
Mary Elaine Cook
Marie Frances Courtney
Ernest Oriente Cuccaro
Fernand Joseph Daneault
Donald George Daviau
(with Honor in General Course and with Honors in German)
Carl James Davis, Jr.
George Herbert Davis, Jr.
Mary Louise Deane
Walter Ching Dear
Alice Katz Dember
("as of" August 1949)
Robert Edward Dik
John Carl DiRienzo
Robert Crane Divoll
Mary Agnes Doran
(with Honor in General Course)
Edwin Peter Dow
Thomas Duncan
John Joseph Dunn
Ralph Warner Ellis, Jr.
Marie Frances Fleming
Patricia Edwards Fohlin
Mary June Gallagher
(with Honor in General Course and with Honors in History and International Relations)
Ralph Lawrence Gates
Clifford Clyde Gay
Lillian Louise Gendron
George Edward Gillson
Mary Angela Giobellina
Julius Sherman Gold
David Harold Goldberg
Allen Robert Goldfaden
Edward Martin Goldstein
Walter Kelly Gordon
Harold Ragnar Graden
George Wilson Grader, Jr.
(with Honor in General Course)
Russell Arthur Graham
Kenneth William Gunther
(with Honor in General Course)
Theodore Abraham Haddad
(with Honor in General Course)
Barton Haigh
Pearl Haroian
Nancy Chandler Haskins
Herbert Arthur Haworth
Sharkey Heroian
Walter Braxton Hicks
Nancy Marie Higgins
Elizabeth Hilborn
Jeanne Day Hill
David Hamlin Hokans

1 Jerry Joseph Cocchiola

Harriet Lucia Holdroyd
Samuel Horowitz
Mary Jane Hunsberger
Myrna Belle Jasen
  ("as of" August 1949)
Milton Henry Javery
Emil Luther Johnson
Robert Earl Johnson
Louis Allman Jones
George Warren Justice, Jr.
Harry Kachadorian
Eli Kalil
Raymond Kalil
Betty Mary Kemp
Robert James Keyes
Sophiamarie Roberta Korzun
  (with Honor in General Course)
Edna Elizabeth Kowal
Marjorie Roth Lamport
George Laska
Marie Ernestine Lemire
Geoffrey Wendell Lennan
Robert Martin Leonard
John Charles Leslie
Kenneth Earl Liberty
John Robert Lilley, II
Marjorie Christine Lindberg
Gerald Philip Loweth
  (with Honor in General Course and with Honors in Psychology)
Janice Evelyn Lurier
  (with Honors in Psychology)
Dolores Maria Manzi
Lucian Arthur Manzi
Anita Marsoopian
Raymond Joseph Martel
Robert William Martel
  (with High Honor in General Course)
Rocci Stephen Mastroberti
Anne Regine Mazur
Vincent Stanley Mikoloski, Jr.
Constantine D. Mollo
Jeanne Viola Muir
Paul Florence Murphy
Beatrice Loretta Neary
  (with Honor in General Course and with Honors in Economics and Sociology)
Arthur Wilder Nichols, Jr.
Emile Francis Nolin
John Ernest Norton, Jr.
Lawrence Stephen O'Connor, Jr.
Benedict Oliver Olson
  (with Honor in General Course and with Honors in Physics)
Sidney Bernard Orman
Charles Stuart O'Toole, Jr.
John James Owens, Jr.
Islay Isabelle Palmer
Shirley Twiss Perkins
Barbara Ruth Piper
Franklin Pierce Plummer, III
Marjorie June Porton
Robert Merton Proctor
Romolo Louis Raffa
Robert Eugene Riemenschneider
Marc Sheldon Rubin
Phyllis Muriel Sadick
Richard Paul Sandberg
Joseph Robert Selzo
Popkin Shenian
William Andrew Sherman
Paul Anthony Shiminski
Kenneth Shulman
  (with Highest Honor in General Course)
William Frederick Sibley
Marguerite MacPherson Skinner
Paul Robert Skogstrom
Ann Marie Smith
Arthur Wallace Smith
Barbara Arlene Soderberg
Janet Sharp Sokoloff
Richard George Spaunburgh
Herbert Stephen Sperry
Dean Firth Squier
Russell Herbert Stanhope
Donald Eberhardt Stevens
Delena Elizabeth Streeter
Walter Robert Strickland
Thomas Charles Sturtevant
John Joseph Sullivan
Michael Richard Swana
Arline May Tillotson
Warren Frank Trow
Barbara Trussell
Adrian Weston Vander Pyl
  (with Honors in Geography)
Harold Earl Vickers, Jr.
Gerald Joseph Vienneau
Joanne Patricia Vradenburg
Elaine Washburn
Ervin Eldred Weagle
Miles Waverly Weaver
  (with Honor in General Course)

Leonard R. Weisberg
(with High Honor in General Course and with Honors in Physics)
Jacquelyn True Wells
Walter Edward Wells
David Kenneth Wetherbee
Dudley Wheeler Wiegand
Gloria Dolores Woolson
Melvin Hersh Worth, Jr.
Andrew John Zaharatos

BACHELOR OF BUSINESS ADMINISTRATION

Charles Raymond Aldrich
Donald Alexander Banks
John George Bastille
Joseph Omar Berthiaume
Torsten Allen Carlson
John Laurence Charamella
Harold Ray Chesson, Jr.
George Dana DiRado
William Henry Eklund
John Michael Falko
Brent Triest Farrand
Henry Marcel Fitzback
Vincent Donnell Foley
Mary Kathleen Fontaine
Philip North Frazier
Frederick John Gay, Jr.
Martin Goldman
(with Honor in General Course and with Honors in Business Administration)
Robert Proctor Goodell, Jr.
Richard Henry Graham
Richard Irving Grove
Warren Keith Heckman
(with Honors in Business Administration)
Kenneth Bruce Hedenburg
John MacKenzie Johnston, Jr.
James Anthony Kelly, Jr.
(with Honor in General Course)
Beatrice Yolande LeBlanc
Joseph Peter Mahoney
Donald Frederick McCauley
Edward Mondore
Constantine Thomas Niarchos
Edward Obremski
Charles Pappas
Albert George Phillips, Jr.
Clarence Ray Phipps
Joseph Eugene Polastri
Glenn Everett Rolston, Jr.
Henry Nelson Russell, Jr.
Emil John Salem
Loukia Smaragda Sarando
Joel Hayden Sirk
Delwin Frank Smith
Harry Irving Spencer
Milton Stewart
Irving Louis Supovitz
Kenneth Edwin Swanstrom
(with Honor in General Course and with Honors in Business Administration)
Robert Tyler Tillson
William Robert Tothill
George Francis Walker, Jr.
(with Honor in General Course)
Roger Temple Westcott
Richard Anthony Xenos
Raymond John Zukowsky

MASTER OF ARTS

Ali Ardehali
Siddik Abdul Rahman Atrushi
Mildred Berman
Walter Hillman Butler, Jr.
Richard Lorey Day
Charles Waldo Ela
Mary Haroian
Willard Carl Hessen
Richard Maxwell Ireland
Bernard Kaplan
Lenore Marie Kelly
Pierce Christopher Lalor
Italo Alden Macchi
John Atwood Ross Macdonald
George Ferno MacDowell
Abdul Amir Majeed
Anna Mae Martin
Bernard Mirin
Ricardo Bernard Morant
Norton Nichols, Jr.

Robert Harvey Pollack
Lawrence Edward Randall
Richard William Reed
David William Rees
David Shepro
Edward Abbott Sibley
Kenneth Albert Sund
Frank William Thornton
James Elmon Vance, Jr.
William Arthur Rudolph Wikkramatileke

MASTER OF ARTS IN EDUCATION

Evelyn Marie Adams
Richard Francis Adrian
Doris Gertrude Audette
Harriet Brooks
Richard Diggins Burke, Jr.
Mildred Edith Collins
Vincent Roger Faucher
Kathryn Ann Jerome
James Myron Johnson
David John Kneeland
James Joseph Noone
Lauri Olavi Oravainen
Leonard Alexander Ostlund
James Horace Sloan
Roger George Viens
William Richard Virchow
Malcolm Williams

DOCTOR OF PHILOSOPHY

Bernard Baum
Austin West Berkeley
Paul R. Dingman
Howard Friedman
Mohamed Fateh Akiel Hebrawi
Mohamed Bahy El-Din El-Hefny
Ma Thin Kyi
Harold James Retallick
Dorian Mabyl Rose
Joseph Hans Rosenbaum
Esther Kroop Sarason
Roy Schafer
Roberta Schoenland Sigel
Elvyn Arthur Stoneman

HONORARY DEGREES

Loring Holmes Dodd	Doctor of Humane Letters
Alvin Christian Eurich	Doctor of Laws
Charles Bungay Fawcett	Doctor of Science
Anna Freud	Doctor of Laws

SUMMARY

Degrees in Course	
Bachelor of Arts	170 ✓
Bachelor of Business Administration	50 ✓
Master of Arts	30
Master of Arts in Education	17
Doctor of Philosophy	14

Honorary Degrees	
Doctor of Laws	2
Doctor of Humane Letters	1
Doctor of Science	1

Register

Names of students are grouped in three lists. I, graduate students, undergraduate students, and special students in attendance during the regular academic year 1950-51; II, those who were in attendance the second semester only; III, those who attended the 1950 Summer Term; IV, students who withdrew after a short time in residence, 1950-51.

I. GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING THE REGULAR ACADEMIC YEAR

Explanation: S—scholar; F—fellow; TF—teaching fellow; numerals 51, 52, 53, and 54, are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; BA—business administration; Ch—chemistry; Ec—economics and sociology; Ed—education; En—English; FA—fine arts; Ger—German; G—geography; H—history and international relations; M—mathematics; Ph—physics; Ps—Psychology; RL—romance languages; Ru—Russian.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated:

The list includes the names of all who have matriculated and registered. An asterisk (*) indicates a student not in residence for the entire year. A dagger (†) indicates a student entering at the beginning of the second semester. "V" preceding the classification means veteran.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Abbott, Carroll Marden	H g		36 Rollinson Rd.
Ackerman, Jerrold Leonard	52	Waterbury, Conn.	36 Richards
Adams, Elaine Frances	51	Lowell	Woodland House
Agabian, Merritt	53	Oxford	
Aharonian, Donald John	54		91 Chandler
Ahern, Thomas Bolton	V 51	New Haven, Conn.	10 Charlotte
Ahmadjian, Vernon	52	Whitinsville	
Albert, Leon M.	V 52		395 Lovell
Allabashi, John Christo	52	Southbridge	
Allard, Robert Stanton	V 53		Green's Trailer Pk.
Allstrom, Barbara Marianne	52	Auburn	
Alpart, Marilyn	53	Paterson, N. J.	Fanning House
Amsden, Festus Gilbert	51		36 Somerset
Anderson, Gunnar Bjork, Jr.	53	Boylston	
Anderson, Kenneth A., Jr.	V Ec g		51 John
*Anderson, Walter Roger	51	Athol	11 Boynton
Andreson, Nicholas Ernest	51		712 Pleasant
Andrews, Nicholas Vasil	V BA s		102 Piedmont
Arbo, Walter Leslie	53	East Poultney, Vt.	Estabrook Hall
Ardehali, Ali	Ec F	Tehran, Iran	9 Clifton
Arsenian, Albert John	V 52	Medford	875 Main
*Askling, Paul Herbert	V 51	Leicester	
Auger, Clifford Melvin	V Ps s		79 Moreland
Austin, Richard Marsh	52	Dudley	
Avey, Robert Edmond	V 54	Marlboro	
Babineau, Alexis Adrian	Ch F		Assumption Coll.
Bachmann, Robert Edward	V 51	East Brookfield	
Bacon, Hugh Christy	53	North Haven, Conn.	131 Burncoat
Bagni, Stuart Read	V 51	Haverhill	Estabrook Hall
Bailey, Hildreth Caldwell	52	White Plains, N. Y.	19 Shirley
Bailey, William Albert	V 51		3 Apollo Rd.
Baker, Elliot	52	Lynn	36 Richards
Baker, Robert William	V Ps F	Brookline	30 May
Bardinella, Marcelene Edithe	54	Port Chester, N. Y.	Fanning House
Barker, Robert Burns	V 54		90 Burncoat
Barnard, David Ware	V 54		8 Barnard Rd.
Barnes, Clarence Edward	V 51		24 Eden
*Barnicle, Robert Joseph	52	Fairhaven	9 Stoneland Rd.
Barrett, James Joseph, Jr.	V H S		5 Lucian
Bartuska, Dolores Ann	51	Nanticoke, Pa.	Fanning House
Baskin, Adelbert Fuller	V 51	Kenmore, N.Y.	35 Maywood
Batstone, Donald McCullough	53		136 Elm
Baxter, Lauren Earl	V BA s	Sloansville, N. Y.	7 Kilby

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
*Beach, Harlan Page	V H g		6 Moore Ave.
Beaudin, Marcia Rita	53	Spencer	Woodland House
Beauregard, Leonard Joseph	V 51	Gardner	40 Richards
Belair, Donald Paul	52		22 Cambridge
Belden, Robert Dorr	51	Petersham	
Belliveau, Robert Rock	53	Auburn	
Benjamin, Howard Bennett	V 52		28 Moore Ave.
Benjamin, Marcel Rene	V 54	No. Grosvenordale, Conn.	
Bennett, Gale Winslow	Ed g		42 Rich
Benson, Peter Alfred	52	Uncasville, Conn.	71 Jaques Ave.
Bercume, Aline Susan	54		930 Main
Berg, Burton Franklin	51		10 Tahanto Rd.
Bergstrom, Evelyn Mae	52	Millbury	
Berkowitz, Hilda	53		25 Woodford
Bernstein, William Elliott	53		83 Park Ave.
Berthold, Elden George, Jr.	54	Attleboro	Estabrook Hall
Besnia, Richard Paul	53		30 Institute Rd.
Biancheria, Amilcare	52		16 Prentice
Bibace, Roger Maurice Albert	Ps g s	Alexandria, Egypt	117 Forest
*Blair, Phillip Gardiner	V Ps s		28 Trowbridge Rd.
Blair, Richard Kent	53	Southbridge	Estabrook Hall
Blais, Frederick William	52	W. Stewartstown, N. H.	Worc. State Hosp.
Blane, Howard Thomas	V Ps S	Daytona, Fla.	11 Crown
Bley, John Earl	54		2 Clough Ter.
Bliss, Edwin Carpenter	53	Taunton	Estabrook Hall
Bliss, Frederick Allen	V 52	Taunton	36 Richards
Bloch, Edward	54	Flushing, L. I., N. Y.	Estabrook Hall
Blomberg, Herbert Stanley	V 53	Albert City, Iowa	8 May
Blomgren, Bertil Carl A.	V 54		2 Weelahka Pl.
Bloomgarden, Gerald Alan	54	Laurelton, L. I., N. Y.	Estabrook Hall
Blue, James Leonard	51	Harvard	Estabrook Hall
*Bobin, Edmund John	V 54		2 Svea
Boffoli, Americo Salvator	V 52		317 Shrewsbury
Bogoian, George	V 53		49 Florence
Boole, George Hagop, Jr.	V 53	Roxbury	14 Oberlin
Borkowski, Theresa Rose	51	Gardner	Woodland House
Boryczewski, Walter Edward	V 53		55 Lafayette
Bouvé, Ruth Cabot	51		14 Richmond Ave.
Bowes, Maurice Gerard	V 52		15 Commodore Rd.
Bowler, Donald Joseph	V 51		11 Jaques Ave.
Bragg, John Douglas	V 54	Framingham	
Brahm, Alexander Emanuel	53		188 Highland
*Branagan, Francis Carr	V 52		150 Mayfield
Brandes, Gordon Salisbury	V 52	Webster	
Braverman, Samuel William	52	Bedford	36 Richards
Breen, John Joseph, Jr.	V Ec g	Providence, R. I.	
Brennan, Dorothy Ann	52		82 Birch
Breuker, Burton John	V Ed g	Whitinsville	
Briggs, Harry Caldwell	53		121 Bailey
Brodeur, Jeanne Rosalie	53	Warren	Worc. State Hosp.
Brooks, Blossom Sheila	53		78 May
Brooks, Marvin Sidney	52		78 May
Brown, Bryant Morton	V 52	Monson, Maine	4 Hobson Ave.
*Brown, Mary Elizabeth	53	Auburn	
Brown, Winthrop Curtis	V 51	Springfield	9 Clifton
Bruell, Jan Herbert	Ps F		2 Dale
Bruso, Jean Anne	53		507 Cambridge
Buchyn, Joseph John	V 51		6 Gold
Budwick, John Michael, Jr.	V 53	Gardner	
Bult, Richard Baker	53	Albany, N. Y.	100 Woodland
Bumer, Richard Fuller	52		121 Richmond Ave.
*Burgoyne, Harvey James	V 51		26 Boynton
Burke, Charles Stephen	V Ed g		9 Kilby
Burkill, Gracia Marion	V Ed g	Spencer	
Burns, Mary Kathleen	Ed g		35 Roxbury
Burton, David MacGregor	54		87 June
*Butler, Mary Alice	B s	Oxford	
Butler, Mary Elizabeth	V 51	Bolton	
Butler, Valerie Frances	54		8 Agawam

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Cain, Richard Austin	52	Marlboro	Belmont Hosp.
*Callahan, Bernard Dennen	V 53		10 Farnum
Carey, Edward Nicholas	V 51	Milford	
Carey, Margaret Jean	52		55 Brantwood Rd.
Carey, Robert Vincent	V 52	Millbury	
Carini, Francis Frederick	V Ch F		13 Piedmont
Carini, Louis Peter	V Ps F	Framingham	919 Main
Carlon, Kenneth Gustaf	52		1 Willvail
Carlson, Arnold Renaldo, Jr.	V 52		138 Barnard Rd.
*Carmody, William Clark	52	Boston	40 Richards
Carney, Francis Leslie	52	Bristol, N. H.	Memorial Hosp.
Carofanello, Frank Anthony	53		14 East Shelby
Carvalho, Vincent George	V Ed g		397 Grove
Castriotta, Raymond Joseph	51	Leominster	16 Marble
Castro, Carlos Manuel de	51	New York, N. Y.	7 Kilby
Ceccorulli, Alton Lebro	V 51	Branford, Conn.	100 Woodland
Cederlund, Albert Merrill	52		16 Steele
Celinskis, Janis Voldemars	H s	Bad-Reichenhall, Germ.	Estabrook Hall
Chandler, Kenneth Ashton	V Ps F		7 Hawthorne
Chang, Jen Hu	G S	Taipeh, Formosa	86 Woodland
Charron, Georgiana Mae	54		70 Longfellow Rd.
Charron, Philip Everett, Jr.	V H g		32 Mower
*Chartier, Eugene Roland	V 51		1289 Millbury
Chartrand, Yolande Marie	53		1 Dawson Rd.
Chekas, Aldona Janina	53		24 Waverly
Chin, Eugene Sheu Theung	54		106 Mechanic
Chin, Philip Sheu Tung	V 51		106 Mechanic
Choiniere, Marie Jacqueline	51	Webster	Fanning House
*Christensen, Thomas Edison	Ps g		25 Calumet Ave.
*Christodoulopoulos, Efstathios C.	En s	Leominster	
Ciani, Libro	V Ed g		31 Granby Rd.
Ciani, Saverino	51		18 Caprera Rd.
Cipriani, Francis Paul	52	Clinton	59 Maywood
*Claussen, Mona Dick	Ps s	Oslo, Norway	11 Stebbins
Clavien, Yvonne Marcelle	53	Templeton	Woodland House
Clegg, Donald Howard	52	Verona, N. J.	34½ Gates
Cochran, Richard Dean	V 52		955 Pleasant
Cogswell, Anne Elizabeth	53		566 Pleasant
Cohen, Lois Ruth	51		39 Woodford
Cohen, Richard Mark	51	Brookline	40 Richards
Collier, Christopher	51	Wilton, Conn.	Quonset Hut
Collins, James Nolan	V Ed g	Springfield	32 Oberlin
Collins, Philip Joseph	V 52		7 Hawthorne
Comalli, Peter Elia, Jr.	V Ps F	Lee	18 Friedel
Companion, Janet Louise	54	Auburn	
*Connolly, Raymond Joseph, Jr.	V 52	Marlboro	
Cooke, Marilyn Flora	53	W. Brattleboro, Vt.	Fanning House
Cooke, Milton James	52	West Boylston	
Cooper, William George, Jr.	53		73 Brigham Rd.
Corey, Roger Marcroft	52	Millbury	
Cormier, George Edward	52		5 Harris Ct.
Corriveau, Albert	54	Patten, Me.	15 Webster
Coulter, Alan George	V 53	Chicopee	13 Gates
Coulter, William James, Jr.	53		19 Hartford Rd.
Coupe, George Alfred	V 52		7 Freeland Ter.
Cournoyer, Raymond Roger	52		35 Dartmouth
Courtney, Richard Clyde	V Ch S		1 Harvard
Coutu, Mrs. Kathleen Ciprian	Ed g		8 Ashburnham Rd.
Cowen, Hope Barbara	53	Providence, R. I.	Blakeslee House
Coyle, Jack Burton	V Ed g	Jersey City, N. J.	7 Kilby
*Crandell, Robert Lynam	53	Shrewsbury	
Cranska, Nancy Carolyn	54	Oxford	
Creveling, Harold Franklin	V G g	Norman, Okla.	6 Richards
Crovitz, Herbert Floyd	53	Cranston, R. I.	Estabrook Hall
*Csizmesia, Frederick William	V G g	Providence, R. I.	236 Main, Oxford
Cuccaro, Ernest Oriente	V Ed g		4 Alvarado Ave.
Cunningham, Howard Monroe	53	Patten, Me.	100 Woodland
Curran, Maryjane Elizabeth	53	New Rochelle, N. Y.	12 Elmwood
Curtis, Nancy Lillian	53		15 Sigel
*Cusson, Richard Paul	V 53		53 Butler

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Dagirmanjian, Rose	52	Whitinsville	
Dahlstrom, Robert Frederick	53		11 Louise
D'Angona, Dominic Stephen	V 54		40 Burghardt
Davidson, Chester Joseph	V 51		8 Watson Ave.
Davidson, Louie	V 52	Dorchester	Estabrook Hall
Davis, Allan Satterthwaite	V 51		140 Elm
Davis, Groves Bradford	52		5 Jenkins
Davis, Robert Arthur	G F	Toronto, Canada	8 Agawam
Davis, Roberta Louise	54		24 Walcott
Dean, John Henry	V G g	Pittsburgh, Pa.	(In absentia)
Debitetto, Michael Frank	V 51	Fitchburg	
*Deebel, William Ralph	V G g	Shenandoah, Pa.	939 Main
Degermajian, George	V 51		1 Patch
Delehanty, Edward John	51	Wallingford, Conn.	59 Maywood
Delle, George Victor	52		14 Pelham
Demers, Sylvio Paul	V 51		5 Chrome
DerBedrosian, Sarkis	53		10 Woodland
Desjardins, Robert Alfred	V 53	Lowell	Estabrook Hall
Dickman, Irwin Lawrence	54	Brooklyn, N. Y.	Estabrook Hall
DiRado, George Dana	V 51	Marlboro	
DiVerdi, Angelo M.	V 54		283 Shrewsbury
Dix, Ernest Sanford	V G g	Oxford, Ohio	E. Brookfield, Mass.
*Dizney, Leonard Claude	52	North Weymouth	875 Main
Doe, Allen Peirce	53	West Boylston	
Doris, Robert Morrison, Jr.	53		9 Hawthorne
Dornbach, John Ellis	V G g	Belleville, Ill.	38 Benefit
Douthit, Robert Collyer	54	Petersham	
Dowgert, Boleslaw Stanley	V H g		17 Fairfax Rd.
Downey, Rae Edythe	54		16 Royal Rd.
*Doyle, Donald Phillip, Jr.	V 54		42 William
Driscoll, John McInerney	54		48 Arlington
Driscoll, Robert Joseph	53	Westport, Conn.	17 Crystal
Drucker, Herbert	52	Montclair, N. J.	36 Richards
Dube, Oscar LeRoy	53	Fall River	Estabrook Hall
Duclos, Robert Joseph	V 53		175 Cohasset
Duffy, Thomas Glenn	V H g	Detroit, Mich.	14 Claremont
Dufresne, Earl Lincoln	54	Northboro	
Dukakis, Arthur George	52	Lowell	40 Richards
Durkin, Paul Vincent	V 52		38 Ames
Dwyer, Richard Edward	51	Dalton	16 Marble
Dye, James Willard	V Ps s		1001 Pleasant
*Dyer, Audrey Diana	B s		6 Mason Ct.
*Ecker, Nathalie	51		34 Amherst
Egan, Jean Helen	51	Sterling	
Ehrlich, Daniel Joseph	54	New York, N. Y.	Estabrook Hall
Ehrmanntraut, William James	53	Belle Harbor, L. I., N. Y.	128 Beaverbrook Pky.
Eisenberg, Frederick Aaron	52	Brookline	25 Roxbury
Elbein, Alan David	54		6 Howland Ter.
Elliott, Dorman Wylie	V 52	Spencer	
Ellis, Virginia Howard	54		22 Howland Ter.
Emory, Jewel Ann	52		48 William
Epstein, Rosaline	51	Gloucester	Fanning House
Erdman, Donald Elmer	V 51		5 Linden
Erickson, Carolyn Ann	54		34 Butler
Erickson, George Carl, Jr.	51	Gardner	
Erickson, Nancy Marie	53		6 Chesterfield Rd.
Erickson, Richard Bruce	54	Milford	Estabrook Hall
Ericson, Robert Henry	51	Auburn	
Erikson, Ella Mae	54		42 Eagan Ave.
Ewing, Eleanor Marion	51		6 Northridge
*Fahey, Lawrence	V 52	Brooklyn, N. Y.	10 Charlotte
Fairbank, Margaret Weir	52		23 Bailey
Falk, Gerald David	53	New York, N. Y.	Estabrook Hall
Fallon, John Edward	V 51		12 Florence
Falter, Elizabeth Johanna	54	Woodcliff Lake, N. J.	Fanning House
Farr, Jeanne Eloise	51	Dodge	
Feeley, Joseph Carmel	V 53		5A Forestdale Rd.
Feinberg, Martin	53	New York, N. Y.	36 Richards

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
*Ferwerda, John Arthur	V G g	Whitinsville	
Fesuk, Stephen Boris	V 52		14 Alpine
Fetherolf, John Warren	V 53		479 Lake Ave.
Field, Nancy Spooner	Ch s		20 Stark Rd.
Finan, Joseph Aloysius, Jr.	V 51	Cranston, R. I.	40 Richards
Fink, Ernest Haskel	V 51	Framingham	
Finneran, Rita Elizabeth	Ed g		1039 Main
Fischer, Constance Rose	53		108 Barnard Rd.
Fischer, Genevieve Agnes	51		108 Barnard Rd.
Fischer, Joyce Kay	53	Bridgeport, Conn.	Fanning House
Fish, Howard Leonard	53	Webster	
Fisher, Gerald Saul	52		34 Wabash Ave.
Fitzgerald, William Matthew	V 53		57 Barclay
Fletcher, Robert Milton	53	Auburn	972 Main
Flint, Charles Edward	51	Leicester	
Flynn, Ann Marie	53	Southbridge	Fanning House
Flynn, MaryJane	51	Northboro	
Fogg, Barbara Alice	54	Lewiston, Me.	35 Fales
Foley, Elizabeth Mary	54		192 Highland
Foley, Joann Marie	52		192 Highland
Fontaine, Barbara Christeen	52	East Douglas	
Forchielli, Enrico Henry	V 51		20 Mulberry
Forgit, Raymond Wellington	V 52	Rochdale	
Fouracre, Arlene Jane	52	Northboro	
Fourré, Jean Dominique	H g	Paris, France	22 Richards
Fowler, William Dubois	V 51	Wethersfield, Conn.	40 Richards
Fox, Beverly Jean	51	Sturbridge	Woodland House
Fox, Jerome	53	Albany, N. Y.	Estabrook Hall
*Fraga, Louis Maurice	V Ec g		17 Osceola Ave.
Frazee, Helen Blanche	53	Groton	6 Norwood
Frazier, Mrs. Betty Louise	52	Boston	
Freed, Aubyn	V M s		1 Manila
*Freed, Gerald Morris	Ps s		1 Manila
Freitag, Joyce Jacquelyn	52	Clinton	
Freitag, Marlene Marie	54	Clinton	
Friedmann, Eric Martin	52		104 Providence
Frodigh, Robert Carl	V 54		29 Quinapoxet Lane
Frodigh, Roland John	V 51		29 Quinapoxet Lane
*Gabrielian, John	V 52		650-B Plantation
Gadomski, Stanley John	V 53	Clinton	
Gagne, Robert Pickering	53	Andover	9 Stoneland Rd.
Gallagher, Norman Vincent	54	Oakdale	
Gammal, Albert Abraham, Jr.	V 52		11 Hawkins
Garbose, Samuel Bernard	51	Gardner	
Garnett, Raymond Leslie	V 52		664 Burncoat
Garratt, Elizabeth Adelaide	54	Auburn	
Gaskell, David Carleton	52		1204 Main
Gauch, Ruth Magdalene	54		43 Dellwood Rd.
Gauthier, Kenneth Paul	51		23 Lake View
Gay, Clifford Clyde	V Ed g	Leicester	
Gay, Walter Irving	52	Southbridge	
Gazonas, Aristotle George	V H g	Norristown, Pa.	8 Sycamore
Gendreau, Robert Henry	52	Spencer	
George, Victor Ferris	51		269 Hamilton
Gerard, Donald Louis	V Ec g		297 Belmont
Giannette, Frank	54		4 Farwell
Giannini, Louis Domenic	V 52		51 Tampa
Gibbs, Richard Warren	51		119 Monadnock Rd.
Gibson, Carole May	54		8 Norwood
Gilbert, Richard Gordon	53	Auburn	
*Gilbert, Suzanne	H S	Columbus, Ohio	24 Gates
Giles, Wesley Reginald	V 52		6 Harlow
Ginsburg, Elizabeth Asher	53		11 Brantwood Rd.
Giuffrida, Matthew Roland	V 52		197 Belmont
Godard, Gordon Crossman	54	Clinton	Estabrook Hall
Goldman, Alfred Emmanuel	V Ps g	Bronx, N. Y.	30 May
Goldstein, Alvin George	V Ps g		7 Kilby
Goldstein, Arthur	51		5 Van
Gollin, Eugene Simon	V Ps g		38 Benefit

Grant, Nancy Ann Thayer (Mrs) 51 Shrewsbury

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Golumbuk, Leon Hersch	V 51		53 Midland
Goodale, Paul Alan	52	Leominster	
Goodman, Thomas Lee	V G g	Harrison, Me.	Quonset Hut
Gordon, Harold Burnham	V 53	Rutland	
Gorham, Richard Vessot	H S	Fredericton, N. B. Can.	8 Sycamore
Gorrell, Robert Bryce	V Ps g	Westboro	
Goss, Edward Charles	51	Fishers Is., N. Y.	14 Oberlin
Gottesman, Lillian	Ps g	New York, N. Y.	42 Freeland
Gottlieb, Mrs. Selma Bernice	53		86 Longfellow Rd.
Gould, Loren Nelson	53		17 Darby
Graf, Robert Edmond	52	Southbridge	8 Silver
Graves, Pauline Elizabeth	51	Woronoco	Blakeslee House
Gravin, Laurence Alan	51	Rochester, N. Y.	51 Downing
Gray, Patricia Burritt	52	Plainfield, N. J.	Blakeslee House
Greenbaum, Joan Beverly	54	Elizabeth, N. J.	Blakeslee House
Greene, Howard Herman	53	Millbury	
Greenlaw, Robert Wilson, Jr.	V 52		14 Oread
Greenwald, Aubrey, Jr.	V 51		18 Healy Rd.
Grundberg, Cedric Bo-Gunnar	53	Stockholm, Sweden	9 Westfield
Gullberg, Marjorie Annette	53		789 Grove
Gurwitz, Arnold	53		151 Providence
Gustafson, Pauline Marilyn	53		29 Woods Ave.
Gustafson, Richard Lyman	52		151 Murray Ave.
Guy, Robert Woods	V 51	Shrewsbury	
*Gwynne, Samuel Carlton, Jr.	En s		12 Ivanhoe Rd.
Haberman, Elaine Lois	53		33 Hadwen Lane
Hackett, Charles Edward, Jr.	V 53	Springfield	13 Gates
Haddad, Raymond Abraham	V Ph g		2 Dartmouth
Haefner, Don Paul	V 51	Albany, N. Y.	16 Marble
Haidukiewicz, Phyllis Evelyn	53	Gardner	Woodland House
Halkyard, Neil Washington	V G g	Boylston	
Halloran, John Francis	52	Roxbury	40 Richards
Halperin, Mrs. Audrey Brudno	51	Brighton	
Hammer, Ernest	54	Port Chester, N. Y.	Estabrook Hall
*Hammond, Alfred Stearns	V Ed s		11 Lansing Ave.
Hanley, Edward Anderson	V 51		140 West
*Haroian, Mary	V Ps g		43 Laurel
Harper, Roy Lees, Jr.	54		21 Woodward
*Harris, William Eldon	V RL s		28 Clifton
Harsch, John Theodore	V H g	Spring House, Pa.	68 Oread
Haslam, Beverly	53	Cranston, R. I.	Fanning House
Hausrath, William Frederic	53	Lowell	14 Kingsbury
Hayeck, George Najeb	52		20 Ridge
Hayeman, David Joseph	Ps g	Canton, N. Y.	43 Oberlin
Hayhow, Ernest Herbert	V 52		42 Shattuck
Healy, James Arthur	V 52	Manchester, N. H.	4 Thayer Ct.
Hefner, Ruth Marie	51	Southbridge	
Hegvig, Virginia May	V 52		9 Frank
Hemenway, Paul Church	V 51		775 Pleasant
Hemmendinger, Larry	V Ps g		51 Ernest Ave.
Herman, Alan Joseph	53	Bronx, N. Y.	100 Woodland
Hickey, Joseph Edward, Jr.	54	Holden	
Higgins, Mary Ann	54	Scarsdale, N. Y.	Woodland House
Hightaian, Louise	53		104 Burncoat
Hill, Barbara Ann	52	Southboro	Blakeslee House
Hill, Joseph Allen	V 51	Albany, N. Y.	35 Maywood
Hilmi, Nahida Rafiq	52	Baghdad, Iraq	24 Gates
Hirschberg, Peter	V G g		3 State
Hirshberg, Yale Albert	52		89 Granite
Hoaglund, Ralph Donald	V 52		9 Monica Rd.
Hohne, Russell Werner	V 51		28 Marconi Rd.
Hokans, Corlyn Barnes	V 52	Westboro	
Hokans, David Hamlin	V G g		61 Everard
Hokanson, Leonard Ray	52		31 John
Holden, Raymond Henry	V Ps g	Cranston, R. I.	11 Crown
Holloran, John Stephen, Jr.	V 51	Monroe, N. Y.	14 Oberlin
Hollows, Marilyn Alice	54		64 Eagle Rd.
Holm, David Roland	51		69 Florence
*Holmlund, Mrs. Kerstin Marty	Ger s	Auburn	

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Holton, James Vernon	52	Houston, Texas	16 Marble
Hook, Grace Louise	53		62 Clark
Hopkins, Barbara Louise	53	Holden	
Houle, Paul Wendell	51	Gardner	16 Marble
Howard, Irving Edward	H g		3 Homestead Ave.
Howatt, Robert Atherton	52	Winthrop	40 Richards
Hudson, Valeda Carolyn	54		45 Andover
Huffman, Robert Hewitt	V G g	Pittsburgh, Pa.	Quonset Hut
Hug, Yolanda Agnes	53	Auburn	
Hughes, John Thomas	G S	Trenton, N. J.	6 Wyman
Hunter, Wilbur William	V G F	Johnstown, Pa.	14 Grand
Hurwitz, Cecile Gloria	51		24 Colonial Rd.
Hurwitz, Irving	V Ps F		604 W. Boylston
✱ Hurwitz, Robert Joseph	BA s		63 Richmond Ave.
Hutchinson, Mary Elizabeth	52	Clinton	
Hutchinson, Richard Charles	53	Sutton	
Hyman, Naomi Cutler	54	New Haven, Conn.	Woodland House
Hyytiainen, Helen Marie	52	Auburn	
Iacobucci, Albert John	V 51	Clinton	
*Iacovelli, Ruth Adeline	52	Sterling Junction	
Ingebretsen, Edward Martin	V 52	Crestwood, N. Y.	8 Oliver
Ireland, Harry Ottway	V 52	Danbury, Conn.	40 Richards
*Jackson, Priscilla Rosalie	51		89 Eunice Ave.
Jacobs, Charles Henry	51	Martinsville, Va.	39 Shirley
Jacobson, Aviva	V Ps s	Tel-Aviv, Israel	132 Coolidge Rd.
Jacobson, Harold Waldemar	51		63 Main
✱ Jaffe, Erwin Alan	Ec S	Jersey City, N. J.	28 Clive
Jamron, Marvin Allen	52		929 Pleasant
✱ Jandron, Roland Leo	52	No. Oxford	
Jenness, John Lewis	V H g	Ottawa, Canada	8 Underwood Ave.
Jennings, Stephen Lester	52	Bethesda, Md.	30 Hollywood
Jeyasingham, William Luther	G g	Mampay, Ceylon	46 Tirrell
Jigarjian, Harold Charles	52	Whitinsville	
John, Thomas	V 53	Camden, N. J.	40 Richards
Johnson, Anna Ottoson	54	Holden	
Johnson, Anne Carolyn	54		1 Ivanhoe Rd.
Johnson, Arne Jacob	V 52	Fitchburg	
Johnson, Betty Ellen	51	North Grafton	Blakeslee House
*Johnson, Donald Melvern	54		120 Purchase
Johnson, Emil Luther	Ed g		16 Everard
Johnson, Margery Ruth	H F		96 Woodland
Johnson, Marjorie	53		2 Forestdale Rd.
Johnson, Peter Christopher	54	E. Orange, N. J.	Estabrook Hall
Johnston, Sally Davies	51	West Boylston	Woodland House
Johnstone, John Oliver	V 51	Holden	
Jones, Mrs. Harriet Marble	BA s		267 Salisbury
Jones, Louis Allman	Ch g		31 Woodland
Jones, Margaret Elizabeth	51	Southbridge	Fanning House
Jones, Mary Kathryn	52	Southbridge	Box 288, Westboro
Joslin, Norman Perry	54	Millbury	
Joynt, Carey Bonthron	V H TF	Hensall, Ont., Can.	94 Lakewood
Jungmann, Henry	53	New York, N. Y.	13 Gates
*Kagan, Ralph Clyde	B s	Chicago, Ill.	268 Old Mill Rd., Shrewsbury
✱ Kairis, Joseph Jerome	V 54		22 Strathmore Rd.
Kalem, Eleanor Merrill	53	Wamesit	Woodland House
Kalin, Robert	51	W. Hartford, Conn.	51 Downing
Kaloosdian, Aram Robert	52	Watertown	
Kamandulis, Donald Algerd	52		10 Strathmore Rd.
Kane, William Francis, Jr.	51	Marlboro	
Kant, Rena Susan	51	Shrewsbury	
Kaplan, Bernard	V Ps g		30 May
Kaplan, Mrs. Edith Freund	Ps S		30 May
Karagheusian, Paul	52		18 Laurel
Karaku, Demeter Theodore	V 53		43 Abbott
Karamourtopoulos, Charles	V 52		31 Chatham
Karvonen, John Waldo	V 51	Shirley	32 Richards

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Kasabian, Robert John	52		38 Terrace Dr.
Kastenbaum, Alice	Ps g	Brooklyn, N. Y.	3 State
Katayama, Tomohei	Ec g	Tokyo, Japan	4 Englewood Ave.
Katz, Evelyn Ann	52	Brookline	Blakeslee House
Katz, Ruth Marion	52		1A Agawam
Kaufman, Stephen Lloyd	51	New York, N. Y.	36 Richards
Keenan, Elizabeth Louise	54		10 Edwidge
Kelleher, Geraldine Mary	52		163 Mayfield
*Kelleher, Ralph Mark	V 52	Fayville	
*Kelley, Donald Lapan	V 52		24 Newbury
Kelley, Justin John	V B s		28 Hooper
Kellogg, David Hodgkins	G g	Springfield	34 Gates
Kelly, Maureen Ellen	54		62 Sever
Kemp, James Malcolm	V Ed g	Templeton	
Kennedy, Edward Aloysius, Jr.	Ed g		41 Davidson Rd.
Kerber, Raleigh Burton	V 52	Leicester	
Keville, George Joseph	V Ed g		11 Loudon
King, Robert Edward	V 52	Leicester	
Kirby, John Redmond, Jr.	V 52	So. Portland, Me.	40 May
Kirby, Robert William	51	So. Portland, Me.	35 Maywood
Kircher, Harry Bertram	G S	Belleville, Ill.	8 Crystal
Kistler, Walter Amandus	53	West Boylston	Estabrook Hall
Kittredge, Margaret Anne	54		72 Morningside Rd.
Klainer, Stanley Melvin	53	Chestnut Hill	
Klein, Sidney	V 52		24 Eden
Kline, Nathan Schellenberg	V Ps g		P.O. Box 57
*Knight, Nancy Anne	53	Sturbridge	Blakeslee House
Konjoian, Isabel Katherine	54		27 Russell
Koprowska, Martha Helen	V 52	Southbridge	
Kosakowski, John Stanley	52		9 Upsala
Kosciusko, Theresa Christine	51		368 Greenwood
Koskinas, Liberty Catherine	51		61 Providence
Koutsoubas, George William	53		10 Newton Ave.
Kozak, George	52	Upton	
Krajewski, Edward Joseph	53		5 Norwood
Krajewski, Irene Rose	Ed g		5 Norwood
Kramer, Herman Harry	V 51		1 Marston Way
*Krochalis, Anthony Vitie	V 51		4 Carpenter
Kronberg, George Herbert	54		6 Deering Dr.
Krus, Donald Max	V Ps g	Haledon, N. J.	28 Clive
(Leigher, Jean MacIntyre (Mrs)	51		40 Woodland
Labovites, Costas James	52		82 Clayton
Laing, Jean Barbara	G S	London, England	7 Wheeler Ave.
Laipson, Samuel Mayer	51		5 Farnum Ter.
Lamb, Bert Woodworth, II	52	Greenport, L. I., N. Y.	8 Silver
Lamson, Edwin Telford	V Ch s	Sutton	
Lancey, Robert Alan	51	West Townsend	16 Marble
Lane, John Everett	V Ps g	Shrewsbury	Worc. State Hosp.
Langdon, George Lewis John	V G g	Mansfield, Pa.	38 Benefit
La Pierre, Richard Alan	52	Gardner	8 Oliver
Larava, Ann Teresa	53		40 Kingsbury
Larson, Jane Louise	53		38 Stebbins
Lategola, Michael Thomas	V B g		41 Coburn Ave.
Lauler, John William, Jr.	53	Jersey Shore, Pa.	48 Downing
Lawson, Hugh Harold	V 52	Orange	
Lawton, Robert Earl	54	Loudonville, N. Y.	Estabrook Hall
Layng, Wilma Odell	52		226 May
Lazarus, George Milton	54		30 Irving
*LeBeau, Raoul Joseph	52	Spencer	
*LeBlanc, Henry John	53	Fitchburg	Estabrook Hall
LeClaire, Robert Lawrence	51	Millbury	
Lee, Harold James	V 51	New York, N. Y.	59 Maywood
Lee, William John	V 51		1 Norwood
Lefcourt, Anne Marie	54	Brooklyn, N. Y.	Blakeslee House
Leger, Lucille Therese	53	Fitchburg	
Legg, Willard Allen	V 51		42 Spofford Rd.
LeVasseur, Virginia Ann	54		7 Wakefield
Levine, Eleanor Zelda	53		71 Russell
Levison, Peter Koleman	54	Brookline	Estabrook Hall
Lindberg, Bruce Alan	54	West Boylston	

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Lindberg, Charles Arthur	V 54		12 Crystal
Lindstrom, Robert David	52		27 Saxon Rd.
Lingner, Robert Earle	54		220 Webster
Lipton, Herbert	V Ps g	River Edge, N. J.	17 Oberlin
Listewnik, Henry Vincent, Jr.	51		407 June
*Litalien, Joseph Gerard	V 51	Leominster	
Litsky, Paulette Ruth	54	Waterbury, Conn.	Woodland House
Lofchie, Stanley Harold	V Ps F		12A Harvard
Lonstein, Alfred Irving	V 51		35 Tirrell
Loomer, Sumner Wellington	51	Shrewsbury	
Lord, Mrs. Mary Elizabeth	V 52		14 Inwood Rd.
Lorys, Josephine Elaine	H g	Great Barrington	52 High
Loughnane, John Bernard	54		34 Clearview Ave.
Lowney, Gerald Mansfield	53		50 Barclay
Lubowitz, Herbert	54		10 N. Woodford
Lumsden, William Robert	V 54	Douglaston, L. I., N. Y.	Estabrook Hall
Lund, Robert Edward	52	Port Chester, N. Y.	18 Shepard
Lundquist, Joan Florence	54	Holden	
Lurier, Norman Merrill	V 51		231 Park Ave.
Lynch, Jean Mary	51		245 Wildwood Ave.
Lynskey, Paul Joseph, Jr.	53	Clinton	
MacCarthy, Ann Kathleen	53		95 Commodore Rd.
MacDonald, Robert Eldon	54		5 Rockwood Ave.
Macewicz, Agrippina Anne	G g		30 Morningside Rd.
~~Macintyre, Jean Warren~~	~~51~~	See Mrs. Leigher	~~4 Davidson Rd.~~
MacKoul, Albert Peter	54		4 Fay
Madaus, John Hurley	V Ch g		177 Lincoln
Maghak, Noel John	53	Baghdad, Iraq	10 Lowell
Mahoney, James Martin	V H g	New Haven, Conn.	36 Kingsbury
Makowiecki, Michael Marian	52		3 Hillside
Mallen, Phyllis Toby	54		6 Farnum Ter.
Manduca, Dominic Anthony	52	Cherry Valley	
Mangan, Nadine Helen	Ed g		102 Piedmont
Mangano, James John	53		417 Shrewsbury
Mann, June Lorraine	51	Turners Falls	Blakeslee House
Mann, Stanley Joseph	54		22 Summerhill Ave.
Manning, Grace Anne	53		1 Rosemont Rd.
Manoog, John Charles	53		70 June
Mansfield, Robert William	V 52		6 Briarcliff Rd.
Manyak, Anthony Richard	V Ch s	East Douglas	
*Manzer, Edith Jocelyn	53		85-6 Park Ave.
Marcus, Gerald Golden	52		5 Havelock Rd.
Marion, Raymond Joseph	V H g	Spencer	
Markham, John Francis	V H g	Ayer	
Marsella, Robert Anthony	V 51		38 Ayrshire Rd.
*Marshall, John Francis	V 51	Brooklyn, N. Y.	Quonset Hut
Marshall, Norman Barry	V B g	Brooklyn, N. Y.	8 Sycamore
Martel, Norman Albert	53	Webster	
Martel, Raymond Joseph	Ed g		10 Dallas
Martin, Richard Raymond	V 53		19 Oliver
Martus, Joseph Armand	Ch F		Holy Cross College
Mayhew, Irma Joyce	51	Vineyard Haven	Blakeslee House
Maynard, Julius Pearl	V 51	Central Sq., N. Y.	765 Main
Maynard, William Snyder	V 52	Fishers Is., N. Y.	12 Catherine
McAulay, Robert Joseph	V 52		187 St. Nicholas Ave.
McCourt, James Carson	52		66 Greenhill Parkway
McDonald, Joanne	52	Westboro	
McDonough, Anna Theresa	53		9 Holland Rd.
McGachie, Harry Leo	V 52	Jamaica Plain	40 Richards
McGrath, Mrs. Anna Nichols	V 51	Marlboro	
McGrath, Dorothy Bernadine	53		68 Berwick
*McGrath, Marshall Conrad	V 51	Rochester, N. H.	16 Marble
McGregor, Ina Louise	B g	St. Andrews, Jamaica, B.W.I.	989 Main
McKie, Margery Anne	54	Millbury	
McLean, William Andrew	51		29 Westfield
McManus, Francis Joseph	54		18 Sturgis
McNulty, James Martin	V 51		87 Lakewood
Mee, John Courtney	52	Framingham Centre	

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Meehan, Lawrence Joseph	V Ed g		51 Sterling
Mei, Yi-Chao	53	Macan, China	11 Willard Ave.
Mellin, Alan Gilman	51		9 Kilby
Mendelsohn, Joseph Meyer	V 52	Revere	6 Charlotte
Meskunas, John Peter	V 52	Waterbury, Conn.	16 Marble
Mettler, John Charles	Ec F	Charleston, S. C.	74 Florence
Michaelian, Barbara Ann	54		179 Belmont
Michaelian, Peter Andrew	V 51		1403B Pleasant
Michalski, Jan Kasimir	54		15 Vernon
Michniewicz, Joseph Anthony	53		8 Richland
Mikoloski, Vincent Stanley, Jr.	B g		25 Rob Roy Rd.
Miller, Lois Marian	53		18 Dellwood Rd.
Milne, Walter Ling	V Ed g	West Boylston	
Milton, Barbara Ann	53		151 Brookline
Minasian, Minas	V 52		22 Hawley
*Minasian, Vasken	Ru s		227 Chandler
Mindick, Arnold David	V 51	Framingham	
Miner, John Burnham	V Ps S		9 Hawthorne
Mioduszewski, Edmund Boniface	52		64 Ward
Mirin, Bernard	V Ps g		9 Hall
Misch, Robert Caesar	V Ps g	Arlington	19-A Elm
Mitchell, Mary Patricia	52	Gilbertville	
Mitchell, Paul Beach	V H g	Gilbertville	
Mohr, Tom Leopold	51	New York, N. Y.	7 Kilby
*Mollineaux, James Arthur	V 53	Shrewsbury	
Mongeon, Norma Joyce	51	Millbury	
Mongilio, Robert Anthony	V 52	Millbury	
Monkiewicz, Wojciech	G g	Oakdale	
Mooradkanian, Edward Harold	52	North Andover	40 Richards
Morales, Carmen Ofelia	52	Temistocles, Mexico City	Woodland House
Morant, Ricardo Bernardino	V Ps F	New Britain, Conn.	6 Richards
Morey, Howard Ralph	V 53	Fiskdale	
Morgantini, Dean Francis	54	W. Pittston, Pa.	Estabrook Hall
Morrison, Daniel Joseph	V 52		104 Darrow
Morrison, Walter Kenneth	V G g	Waltham	145 Woodland
Morse, Albert Daniels	V Ed g	Winchester, N. H.	28 Sever
*Morse, Jon Carol	V 52	Brookfield	4 Wyman
Moschos, Iphigenia	54		21 Morningside Rd.
Mrosek, George Ernest	V 52	Manchester, Conn.	8 Oliver
Mulligan, William Dunning	52		33 Gifford Drive
Mulvey, Philip Francis, Jr.	53		130 Fairmont Ave.
Murdock, Arthur Chandler	52		2 Fern
Murphy, Ann Marie	51		220 Lovell
Murphy, Cornelius Bernard	V Ch g		37 Enfield
*Murray, Leroy Joseph	V 51	Northampton	3 Midland
Muthiah, Subbiah	52	Colombo, Ceylon	25 Schussler Rd.
Myers, Wallace Haslett	51		3 Old English Rd.
Nagle, Mary Elizabeth	54		138 June
*Nason, Phyllis Louise	52	Westboro	
Nasse, Mrs. Alyne May	52	Southbridge	
Nazarow, John Peter	V 52	Gardner	
Neary, Mrs. Beatrice Loretta	Ec S		193 Park Ave.
Neiditz, Marvin Myer	52	Hartford, Conn.	36 Richards
Nelson, Betty Louise	51		33 Gosnold
Nelson, Herman L.	V G g	Des Moines, Iowa	32 Oberlin
*Nelson, Polly Katherine	51	Adams Basin, N. Y.	Blakeslee House
Nelson, Richard Andrew	53		45 Uncatena Ave.
Nelson, Thomas Leverett, Jr.	51	Northboro	8 Oliver
Nester, Chloe Adele	53		14 West Chester
Newman, Daniel Mordecai	54	Brooklyn, N. Y.	Estabrook Hall
Nicholas, Violette	52		17 Goulding
*Nicholas, Virginia	51		17 Goulding
Nicola, James	V 51	Bridgeport, Conn.	Quonset Hut
*Nimmo, John	V 51	L. I. City, N. Y.	40 May
Noble, Ralph Everett	V 52	Whitinsville	
Nolin, Emile Francis	V Ed g	North Agawam	7 Kilby
Noniewicz, Stanley John	51	New Britain, Conn.	Estabrook Hall
Nordwell, Clifford Irving	52	Shrewsbury	

Norman, Albert	V H g		8 Flagg
Norman, Gerald Earl	53		9 Sherwood Rd.
Novick, William John	53		4 Chapin
Novitch, Richard Leonard	52	Marlboro	
Nylin, Marilyn Bernadine	53		119 Airlie

O'Brien, Paul Vincent	53	Wheelwright	
O'Connell, John Joseph	52	Westboro	
O'Donnell, Albert Burke, Jr.	V 52	Shrewsbury	
O'Grady, James Francis	V 52		26 Massasoit Rd.
O'Grady, Margaret Rita	51		11 Maxdale Rd.
Ohtsuka, Noyuri	H g	Tokyo, Japan	46 Tirrell
Olson, Ronald Douglas	V 54		13 Reed
O'Neill, Alan Edward	V 51	Farnumsville	
Osgood, Samuel Maurice	V H g	Elko, Nev.	7 Kilby
O'Shea, John Edward	V G g	Chicopee	974 Main
Ostergaard, Robert Alden	52	North Grafton	
*Oswell, David Dill	51		370 Lovell

Pappas, Charles	V Ec g		11 Preston
Pappas, Ernest James	52	Webster	
Pappas, Steve Charles	53	Southbridge	Estabrook Hall
Paquette, Ernest Girard	V 51		76 Fairmont Ave.
Parda, Stanley Chester	53		2 Bigelow
Parsley, Elaine June	53		360 Mill
Patronas, Eleas William	V 51		59 Dorchester
Patterson, Janet Ann	52		17 Rockdale
Patterson, Paul Marsh	V 52		3 Lily
Patterson, Robert Hornby	54	Attleboro	Estabrook Hall
Patterson, Wayne Everett	53	Attleboro	Estabrook Hall
Paul, Marcia Maxine	52		15 Kensington Rd.
Pawlikowski, Daniel Felix	V 51		17 Hammond
Pearson, Pehr Albert	V 52		24 Chester
Peirce, David Allen	54		2A Bellingham Rd.
Pentland, Robert Howard	V 52		10 Valley Hill Dr.
Perron, Richard Waldo	V 52		18 Rena
Perry, Jane Frances	54		154 Lovell
Perry, Waldo Everett	V Ed g	Holden	
Peters, Donald Daniel	53		340 Hamilton
Peterson, Paul Norman	V 51		15 Lorenz
Peterson, Robert Andrew	53		156 Vernon
Petrakogeorges, Heraklis G.	52	Crete, Greece	5 Florence
Petrell, Edward Francis	V 52	Rockland	39 Shirley
Petrell, Ralph Joseph	52	Rockland	16 Marble
Phelps, Charles Foskett	51		7 Ruth
Phelps, Ernest Davis	V Ec g	Auburn	
Phillips, Walter	V Ec S	Plainfield, N. J.	28 Clive
Phoenix, Ernest Gerard	V 53	Troy, N. Y.	39 Pleasant, Leicester
*Pinna, Sanford	V 53	Cleveland, Ohio	Estabrook Hall
Plucinski, Robert Paul	V 51		211 Beaconsfield Rd.
Pollack, Robert Harvey	V Ps g		160 Highland
Polymeros, John Constantine	53	Clinton	
Pongowski, Florence Josefa	51		83 Ward
Ponty, Louise Dolores	52		129 June
Porter, Gerald Donald	V 54		2 Hudson
*Pougin, Erwin	Ec g	Cologne-Junkersdorf, Germany	6 Downing
*Price, Irwin Elliot	BA s		14 St. Elmo Rd.
Prince, Paul Anthony	V G g	Scranton, Pa.	34 Gates
*Proodian, James Anthony	V En s		25 King
Proodian, Valerie Mary	51		25 King
Pruser, Etha Marie	G S	Richmond Hill, N. Y.	989 Main
Pryor, Robert Edward	V 52	So. Berlin	
Putnam, Beverly May	52		8 Kenwood Ave.
Putnam, George Clinton	52		53 Navasota Ave.
Putnam, Patricia Ann	54		8 Kenwood Ave.

Radzik, Rose Marie	53		136 Endicott
Ragoza, Stanley	V 52	Leeds	16 Marble
Rassias, Charles Nicholas	51		20 Hackfield Rd.
Rawson, Paul Landon	V G g	Webb City, Mo.	6 Irene

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Reed, Richard William	V Ec g		15 Watson Ave.
Richards, Gerald Owen	V 51	Rockport, Me.	16 Marble
Richardson, Norman James	52	Braintree	8 Silver
Richason, George Robert	V Ch g	Amherst	
Rimbach, Marella Deighton	53	Sterling	Woodland House
Riordan, James Francis	V 51		106 Richmond Ave.
Rizkalla, Janet Catherine	54		15 Acton
Roberts, George Milton	54	North Grafton	
*Robes, Robert Ernest	53	Needham	939 Main
Roche, Claire Maureen	52		493 Park Ave.
Rochette, Robert Phillips	V Ed g	Shrewsbury	
Rodenstein, Lois Marion	52	Roxbury	Fanning House
Rodier, Ruth Elizabeth	54	Oxford	
Rondinella, Renato Mario	51	Brooklyn, N. Y.	16 Marble
Rose, Barbara Elizabeth	52	Watertown, Conn.	Woodland House
Rosen, Julius	V 54		40 Providence
Rosenblatt, Bernard Philip	V Ps g	Concord, N. H.	32 Richards
Rosenblatt, Melvin Morton	52		38 Woodford
Rothblatt, Helaine Lois	52	Brookline	Fanning House
✱ Rourke, John Francis	V G g		11 Thayer
Ryan, James Grogan	52	Springfield	15 Stoneland Rd.
Sachs, Edward	54	Bridgeport, Conn.	Estabrook Hall
Sachs, Howard Miller	52	Bridgeport, Conn.	36 Richards
*Sack, Wilfred Stephen	FA s		2 Chapin
Sadler, Norman Irwin	H S	Providence, R. I.	7 Kilby
*Sadowsky, Lester	V BA s		42 Commodore Rd.
Saitas, Alexander John	52	Putnam, Conn.	27 Wyman
Salem, William John	V 52		394 Grafton
Salley, Paul Vincent	V G g	Revere	145 Woodland
Salvatelli, Geno Francis	V 51	Leominster	16 Marble
Salvucci, John Philip	54	Newtonville	Estabrook Hall
Samara, Joseph	V 52		73 Orient
Sandberg, Richard Paul	V Ed g		62 Whipple
Sanford, William Warren	V H g	Starrucca, Pa.	664 Pleasant
Sarando, Minerva Mildred	54		12 Page
Sarris, Anthony Pantos	H s	Webster	
Saunders, Ralph Howard	54		3 Kingsbury
Sayrs, Robert Dudley	V Ps g	W. Collingswood, N. J.	875 Main
Scannell, Marguerite Ann	52		4 Judson Rd.
Scarborough, John Robert	V 54		56 Cohasset
Schaines, Nancy Sara	53	New York, N. Y.	Woodland House
Schanberg, Saul Murray	54	Clinton	Estabrook Hall
Schiff, Mortimer Edward	52	Newton	40 Richards
Schneider, Charles	52	New York, N. Y.	36 Richards
Schollard, William James, Jr.	52		7 Woodridge Rd.
Schulhoff, Celia Lila	54	Athol	Woodland House
Schuman, Robert Lauer	51	Hyannis	18 Coombs
Schuster, Gerald	51	Brookline	
Schwebel, Marlene June	54	Brooklyn, N. Y.	Fanning House
Scola, Daniel Anthony	52		21 Branch
Sears, Noel Chase	V 51		11 Dunbar
Seaver, Ralph Adelbert, Jr.	V 51		12 Wellington
Seay, Claire Lorraine	51		32 Ames
Seder, Ivan Ellis	V 52		6 Zenith Dr.
Seymour, Jean Macdonald	54	So. Lancaster	
Shamoian, Charles Anthony	54		28 Belmont
Sharkey, Stephen Robert	54	Brooklyn, N. Y.	Estabrook Hall
Sheppard, Frederick Neil	51		5 West Oberlin
Sher, Esther Frances	53		235 Cohasset
Sherry, Dudley Benson	V 51	Whitinsville	
Shiminski, Joan Mary	51		1036 Main
Shirley, Harry Pickford	54		6 Maravista Rd.
Showket, Ibrahim	G F	Baghdad, Iraq	82 Lovell
Showket, Mrs. Subhia Mikdadi	52	Baghdad, Iraq	82 Lovell
Siegel, Edward Louis	V Ps g		34 Catharine
Siegel, Rolland V.	54	New York, N. Y.	Estabrook Hall
Sigel, Morton Herbert	51		42 Brantwood Rd.
Silver, Sallye Joyce	54	Larchmont, N. Y.	Blakeslee House
Simmons, Clark William	V H g	Cooperstown, N. Y.	171 Woodland

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Simon, Arleen	54	Passaic, N. J.	Woodland House
Simon, Walter Benno	V Ps g	New York, N. Y.	10 Lowell
Simonian, Harry	52	Whitinsville	
Simonian, Jean Marion	54		2 Hudson
Simpson, Dorothy Louise	51	West Boylston	
Sisson, Robert Eugene	52		29 Hillcroft Ave.
Skrypa, Michael John	V Ch g	Woonsocket, R. I.	3 Richmond Ave.
Slechta, Robert Frank	B S		25 Delawanda Dr.
Slepian, Howard Joseph	Ps S	Brooklyn, N. Y.	30 May
Sleuman, Frank Henry, Jr.	V 51		3 Oliver
Smith, Arthur Joseph	V 52		101 Merrick
Smith, Harold Dwight, Jr.	52		34 Canterbury
Smith, Ian Ballantyne	V 51		75 Catharine St.
Smith, Margaret Augusta	52		70 Coolidge Rd.
✱ Smith, Raymond Rodolphe	V 52	Westboro	
Smith, Stephen Adams	V 52	Grafton	
Solomon, Paul	V Ps F	Palmer	
Somers, Robert Charles	V 52	Auburn	
Sorvo, Paul John	53	Millbury	
Spalding, Judson Wylder	51		717 Southbridge
Spaulding, Arvin Arthur	53	Lancaster	17 Crystal
Spear, Everett Richard	54	Milford	Estabrook Hall
Sperry, Herbert Stephen	V Ed g	West Boxford	8 Shawmut Shrewsbury
Spillane, Joan Marie	52	West Brookfield	
Squire, Joan Perley	54	Stafford Sp'gs., Conn.	Fanning House
Stagg, Ronald Montgomery	V B g	Garden City, N. Y.	2 Cabot
*Staid, John Leo	V 52	Peabody	36 Kingsbury
Stearns, Harlan Emory	51	Winchendon	Estabrook Hall
Steeves, Marilyn Joan	53	Gardner	Woodland House
Steinberg, Robert Malcolm	V 52	Norwalk, Conn.	36 Richards
*Steinberg, Vivian Beverly	54		80 Houghton
Steingold, Kenneth Harold	52	Pawtucket, R. I.	36 Richards
Stern, Austin	53	Coral Gables, Fla.	Estabrook Hall
Stern, Kurt Heinz	V Ch g	Newark, N. J.	17 Grand
Sternlof, Paul William	53		14 Kosta
Stewart, Lauraine Mae	54	Dalton	Fanning House
Stickney, Stanley Francis	51	Auburn	
Stochaj, Eleanor Magdalene	B g	Webster	24 Gates
Stolbof, Bernard S.	V 51	Albany, N. Y.	7 Kilby
Stolnacke, Richard Arthur	52		41 Tatman
Stone, George Levi	V 53	East Princeton	
Stone, Henry Washington, Jr.	V 53	Oakham	
Stout, Gretchen Beatrice	54	New York, N. Y.	Fanning House
Strandberg, Verner Raymond	52		1 Knapp Ave.
Stratton, David Kent	52	Maplewood, N. J.	16 Marble
Sturrup, William Henry	V 51		46 Elm
Sullivan, Donald William	V 52	Gilbertville	Estabrook Hall
Sullivan, Edward Patrick	V 51		466 Park Ave.
Sullivan, Richard Patrick	52		1 Conger Rd.
Sullivan, William Thomas	52	Braintree	26 Sever
Sumner, Joseph	V 51		34 Loxwood
Surprenant, Albert Wilfred	V 53	East Brookfield	
Sussman, Richard Fredric	53	Mt. Vernon, N. Y.	36 Richards
Svenson, David Andrew	V 51		30 Button
Swanstrom, John Eric	51		20 Neptune Rd.
*Sweeney, Mrs. Nancy Mary	V Ed s	Rutland	
*Sweeney, William H., Jr.	V 53	Rutland	
Sweenie, Harold Gordon	V 53	Uxbridge	
Symonds, Merrill Augustus	V H g		98 Ararat
Szerlag, Genevieve Agnes	53	Northbridge	
Tait, Jeanne	53		10 Suburban Rd.
Tashjian, Robert John	51	West Boylston	
*Taylor, Nancy	H S		51 Laconia Rd.
Tenney, Ashton Munroe	Ps g	Gardner	Worc. State Hosp.
✱ Tenzer, Alice Betty	53	New York, N. Y.	Woodland House
Thayer, Constance	53	North Oxford	157 Woodland
~~Thayer, Nancy Ann~~	~~51~~	~~Shrewsbury~~	See Mrs. Grant
Theriault, Frank Noel	54	Manchester, N. H.	Estabrook Hall

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Thomas, Daniel Walter	53		5 View St.
*Thompson, William Bruce	V Ed g	Leominster	
Thresher, Allan Avery	V 51	Wakefield	40 Richards
* Thurston, Anthony Warren	V 53		111 Austin
Thurston, Roger Tucker	51		20 Juniper Rd.
Tibbetts, Raymond Eugene	V 51	Paxton	
*Tite, Dorothy	Ed g	Charlton City	
Tomolonis, Albert Joseph	V 52	Buzzards Bay	8 Oliver
Tonseth, Harold Leif Eric	54	Marlboro, N. H.	37 Forest
Torres, Allan Francis	51	Brooklyn, N. Y.	16 Marble
Tosi, Peter Alexander	52	Sterling	
Tromovitch, Theodore Albert	53		24 Orient
Trudeau, Edmund Andrew	V 51	Webster	
Turnbull, Elliott Dean	53	Clinton	
Ungar, Judith Ann	53	Brooklyn, N. Y.	Woodland House
* VanderPyl, Adrian Weston	V G S	Rutland	
Vandersea, Mary Louise	51	Whitinsville	Fanning House
van Haagen, Robert Davis	53	Seymour, Conn.	17 Crystal
van Leeuwen, Adrian Eric	54		9 Euclid Ave.
Varney, Charles Broadwell	V G S	Denver, Colo.	7 Hawthorne
Vasil, George Victor	V 52		6 Rice Square
Vetterling, Philip William	V Ec g	Holyoke	10 Underwood
Viglucci, Andrew Thomas	V 51	Albany, N. Y.	16 Marble
Vigneault, Robert Edward	52		1 Denny
Vouras, Paul Peter	V G g	Meriden, Conn.	785 Main
Vuona, Joseph Paul	52		13 Groton Place
Waterman, Irma	52	Attleboro	Woodland House
Waterman, Nancy Mayo	G S	Hanover, N. H.	28 Hollywood
Watkins, Helen Eugenia	52		110 Barnard Road
Weaver, Miles Waverly	V G g	Spencer	
Webster, Charles Ellison	V 52	Whitinsville	
Weed, Amorette Grace	53	Westboro	
Welch, Francis Donald	V 52	Lynn	10 Norwood
Weller, Arnold Clare, Jr.	54	Rutland	
Wells, Bruce Edward	54		55 Windsor
West, Gilbert Lorenzo, Jr.	54	Pittsfield	Estabrook Hall
West, James Thomas	V Ed g	Whitinsville	
Weston, Ray Faunce, Jr.	V 51	Montrose, Alabama	Worc. State Hosp.
Wetherbee, David Kenneth	V B g		11 Dallas
Wetmore, Claude Richard	V 54	Norwalk, Conn.	Estabrook Hall
Wetmore, Clayton Andrew	51	Norwalk, Conn.	8 Oliver
Wetmore, Melvin Abram	V 51	Norwalk, Conn.	8 Oliver
Wheeler, David	52	Revere	6 Charlotte
Wheeler, Diane Eleanor	53		11 Dover
Wheeler, Dorothy Ann	53		11 Dover
Wheeler, Roy Harold	54		6 Cheever
White, Richard Andrew	V 53	Leominster	
Whitney, Leon Edward, Jr.	51	Athol	6 Downing
*Wickman, Virgil Dennis	H s		14 Victoria Ave.
Wiener, James Saul	52		92 Houghton
Wiener, Norma	53		51 Richmond Ave.
Willard, Kenneth Leslie	V Ed g	Fitchburg	
Willett, Robert George	V 52	Quinebaug, Conn.	
Williams, Harvey Louis	54		538 Mill
Wilson, Carol	Ed g		11 Berwick
Wilson, Martin Charles	V Ed g		24 Florida Ave.
Wilson, Mary Tewksbury	Ps g	Amsterdam, N. Y.	21 Fruit
Witt, Albert Vito	V 53	Leicester	
Wolske, Janet Frederika	54	Holden	
Wood, Alden Stokes	V 53	Melrose	Worc. State Hosp.
Woodrich, Helga	51	Berlin, Germany	Leicester, Mass.
*Woods, John Francis	V 51		102 Whitmarsh Ave.
Wray, Norman Leslie	54	Wilkinsonville	
*Wynne, William Mark	V 51	Manchester	N. Brookfield

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Yakutis, Robert Kasimir	53		20 Crescent
Yoffe, Graenem Abba	51		59 South Lenox
Young, Mrs. Helen Troy	V 52		53 Elm
Young, Manoog Solomon	H g	Brookline	36 Kingsbury
Youngren, Betty Saunders	51		79 Lakewood
Ziemski, Bernard Norman	V Ed g	Webster	
Zimavicius, Jurgita Constance	53		858 Main
Zitowitz, Lester	52		172 June
Zmyslowski, Walter Peter	52		28 Marion Ave.
Zuk, Henry	V 51	New York, N. Y.	21 Shirley
Zukowski, Walter Henry	V Ec g		119 Morningside Road

II. GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING SECOND SEMESTER ONLY

†Adams, Harold Walter	V H g	Waterbury, Conn.	8 Richmond Ave.
†Ahern, Edward Cyril	53	New Haven, Conn.	10 Charlotte
†Ames, Mrs. Geneva Julia	V Ed g		9 Laconia Rd.
†Benson, Hilvie Elizabeth	En s		51 Beechmont
†Coyle, Thomas Harrison	V Ed g	Jersey City, N. J.	7 Kilby
†D'Amico, Frank W.	V 52	Dorchester	Estabrook Hall
†Deignan, James Richard	52	Arlington	Estabrook Hall
†Denison, Peter Nicholas	V 52	Cambridge	Estabrook Hall
†Devletoglou, Joyce	B s		10 Schussler Rd.
†Duffy, John Francis	54		310 Hamilton
†Felton, Elizabeth Ann	Ps s		37 Commodore Rd.
†Forand, Lois Mary	En s		104 Winifred Ave.
†Fremont, Jean Hans	B s	Boston	2 Claremont Sq.
†Glennon, William F. Michael	V 52	Mattapan	
*Heckman, Edwin Albert	M s	Westboro	
†Holton, John Jennings	54	Houston, Texas	Estabrook Hall
Johnson, Wallace Adolph	Ed g	Auburn	
†Kallio, Reino Ilmari	Ed g	Millbury	
†Kennedy, Louise Marie	51	Fall River	Blakeslee House
†Kent, Jack Alvin	V Ec s	Grafton	
†Knowlton, George William	V 54		8 Drury Lane
~~†LaFleur, Louis Edmund~~	~~V En s~~	~~Hudson~~	
†Lambros, Frank Harry	V 54	Dudley	339 Main
†Lougee, Mrs. Clara Rom	G g	No. Grafton	
~~†Lynch, Russell Gerald~~	~~54~~	~~Leominster~~	
†McCowan, Richard Ellsworth	En s	Shrewsbury	
†Menke, Mrs. Katherine	En s	Shrewsbury	
†Meunier, Dorothy Lucille	Ec s		50 Benefit
†Navaroli, John Anthony	52	Clinton	59 Maywood
~~†Nims, Robert Ferdinand~~	~~H g~~	~~Auburn~~	
†Nylund, Arnold Wilhelm	V 54		32 Olga Ave.
†Oliver, Morton Spencer	G s	Lockport, N. Y.	927 Main
†Philbin, Florence Ellen	54		157 West
†Shannon, John Joseph	Ed g		41 Holland Rd.
†Shippee, Barbara Lucille	52	Shrewsbury	
†Smith, Mrs. Phyllis Goldberg	En s	Brooklyn, N. Y.	311 June
†Strates, Basil Stavros	52	Philiates-Epirus, Greece	5 Florence
†Straw, Barbara Elizabeth	B s	Marlboro	
†Sullivan, Neil Joseph	54	Gilbertville	
†Thibideau, Ronald William	54	Roxbury	Estabrook Hall
†Tibbetts, James Herbert	V 52		6 Salisbury Crag
†Timon, John Jerome	G s		109 Green Hill Pkwy.
†Tosi, Joseph Andrew, Jr.	V G g	Sterling	
†Trigueros, Rafael	En s	Caracas, Venezuela	Estabrook Hall
†Walsh, Albert Joseph	V 52	Malden	
†Willis, Meta	Ec s	Brooklyn, N. Y.	34 Orne
Woodall, J. Arden	Ed. g.	Paxton	

III. SUMMER SCHOOL STUDENTS (1950)

Andreson, Irene, Worcester

Baljian, N. Rose, Worcester
Ballou, Jane S., West Brookfield
Barnes, Clarence E., Auburn
Berg, Burton F., Worcester
Bosworth, Russell H., Braintree
Boucher, Phyllis R., North Grafton
Bradford, Mrs. Mildred S., Washington, D. C.
Breuker, Burton J., Whitinsville
Burke, Charles S., Marlboro
Burkill, Gracia M., Spencer
Burton, Warren H., Jr., Philadelphia, Pa.
Butler, M. Catherine, Worcester

Cain, Richard A., Marlboro
Caldwell, Harry H., Moscow, Idaho
Carvalho, Vincent G., Holden
Cassidy, Clare T., Uxbridge
Ciani, Libro, Worcester
Clauson, David R., Worcester
Cormier, Carlton F., Marlboro
Creveling, Harold F., Norman, Okla.
Cronin, Stephen J., Worcester
Crosby, Gloria R., Sterling
Crowley, John J., Jr., Worcester
Csizmesia, Frederick W., Providence, R. I.
Cuccaro, Ernest O., Worcester

Day, Dorothy M., Waynesville, Ohio
Delle, George V., Worcester
Derosier, Robert F., Leominster
Dwyer, Gary B., Northbridge
Dwyer, John J., Worcester

Ericson, Carol K., Worcester
Escolas, Edmond L., Worcester

Fallon, John E., Worcester
Finan, Joseph A., Cranston, R. I.
Fitzmaurice, Henry F., Worcester
Fleming, James S., Worcester
Flint, Charles E., Leicester
Fraga, Louis M., Worcester

Gay, Clifford C., Leicester
Goddard, Esther C., Worcester
Granger, Wilfred R., Worcester
Grodberg, Emil H., Worcester
Grundberg, Cedric B., Worcester
Guy, Robert W., Worcester

Hallisey, Robert C., Worcester
Hannah, John E., Worcester
Harris, Guy K., Lyons Falls, N. Y.
Hilmi, Nahida R., Baghdad, Iraq
Hirschberg, Peter, Worcester
Hobin, John F., Worcester
Hortman, Helen E., Minden, La.
Hortman, Jacob C., Minden, La.
Hoyen, Francis E., Jr., Worcester

Ivok, Leo, Worcester

Johnson, Carol L., Worcester
Johnson, Donald E., Holden
Johnson, E. Luther, Worcester
Johnson, Wallace A., Auburn

Keene, Ella O., Keene, N. H.
Kelleher, Geraldine M., Worcester
Kendrick, Amelia E., Worcester
Kramer, Herman H., Worcester

Laine, Oliver H., Harrisburg, Pa.
LaPierre, Richard A., Gardner
Larson, Alden A., Concord
LeClair, Edward E., Jr., Southbridge
Lewis, Marion E., Windsor, Vt.
Lonstein, Alfred I., Worcester
Lord, Mrs. Mary E., Auburn

MacCarthy, Ann K., Worcester
Mangan, Nadine H., Worcester
Marion, Raymond J., Spencer
Martin, Eleanor, Marlboro
McIntyre, Wallace E., Niagara Falls, N.Y.
McLean, William A., Worcester
McNulty, James M., Worcester
Michaelian, Peter A., Worcester
Milne, Walter L., West Boylston
Minasian, Minas, Worcester
Moreland, Andrew S., Longport, N. J.
Morello, Robert A., Worcester
Morgan, Lewis W., Worcester
Moriarty, Richard W., Petersham

Neary, Mrs. Beatrice L., Worcester
Nelson, Herman T., Des Moines, Iowa
Nelson, T. Leverett, Northboro
Nicholas, Virginia, Worcester
Nichols, Frank, Philadelphia, Pa.
Nolin, Emile F., North Agawam
Nordstrom, Everett R., Dudley
Norman, Albert, Worcester
Nugent, Edward F., Indianapolis, Ind.

Ogilvie, Bruce C., South Portland, Me.
O'Grady, Margaret R., Worcester
Olson, Earl H., Petersham
Osgood, Samuel M., Elko, Nev.
O'Shea, John E., Chicopee
Ozimek, Henry A., Suffield, Conn.

Peabody, Anita M., Princeton
Perry, Waldo E., Holden
Petka, Stanley M., Wilkinsonville
Plotczyk, Raymond A., Westboro
Prince, Paul A., Scranton, Pa.
Pruser, Etha M., Richmond Hill, N. Y.

Rasnick, Marvin K., Worcester
Reidy, David R., Worcester
Russell, Frederick W., Petersham

Sardo, Peter T., Laureldale, Pa.
Scanlan, John A., Barre
Schalck, Harry G., Reading, Pa.
Shaw, Arnold R., Worcester
Shaw, John P., Concord, N. H.
Simpson, Paul E., Worcester
Sister Mary Clarissima, Philadelphia, Pa.
Sister Mary Gregoria, Philadelphia, Pa.
Stanhope, Russell H., Worcester
Starbird, Myron E., Farmington, Me.
Svenson, David A., Worcester
Symonds, Merrill A., Worcester

Theodore, Louise, Worcester
Thomas, Edward S., Worcester
Tite, Dorothy, Charlton City
Tuttle, Jean W., Worcester

Ullstrom, Paul E., Worcester

de Vauloge, Katherine P., Bernardsville, N. J.

Vouras, Paul P., Meriden, Conn.

Waris, Marilyn C., Fitchburg
Waszkiewicz, Chester S., Worcester
Wells, Walter E., Dodge

Ziemski, Bernard N., Webster

IV. IN RESIDENCE LESS THAN ONE SEMESTER, 1950-51

Alicandro, Benny Louis	52
Boothroyd, Joseph Edward	H g
Brown, Bruce Leonard	54
Commanday, Peter Martin	53
Crowley, Paul Walter, Jr.	V 53
DeGuise, Eleanor Anne	52
Doran, Elizabeth Mary	Ed g
Eliasen, Donald John	54
Feldman, Ralph Milton	Ru s
Finnegan, Henry Paul	V 54
Fox, Lowell Robert	54
Frank, Benis Morton	V H g
Gabriel, Dorothy Foster	53
Gardner, Leonard Foster	V H g
Goodlight, Edwin Thomas, Jr.	51
Hammond, Henry Fordyce	V 52
Hanson, Martha Eleanor	V 51
Hughes, Thomas Vincent	V 54
Johnston, William Howard	V 52
Jones, George Stanley	V 54
Kelleher, Noeline Ann	52
Lachapalle, Adrienne Gloria	Ed g
Lindholm, Alf Birger	53
Meissner, Philip George	V 51
Morgan, Robert	V Ec g
Nichols, Frank	V 51
Parmenter, Guy Norris	V G g
Perkins, Benjamin C.	54
Rawda, Mrs. Khalida	G g
Ribner, Herbert	V Ch s
Roberts, Edith Corey	54
Shapiro, Elsa Lee	53
Siel, Allen Harold	V 54
Turrell, Stephen Ward	V 52
Von der Heide, John Thomas	V 52
Witt, John Allen	54
Woo, David Yu Cheng	51

SUMMARY 1950-51

			Men	Women	Total
Undergraduates			540	212	752
	Men	Women			
Freshmen	88	54			
Sophomores	110	64			
Juniors	191	48			
Seniors	151	46			
Graduate Students			155	27	182
Special Students			30	18	48
Summer School (1950)			98	33	131
Total			823	290	1113
Less Duplications			38	10	48
Net Total			785	280	1065

Index

Absences 73
Abstracts of Dissertations and Theses 54, 55
Academic Council 24
Academic Year 7, 38
Accelerated Program 65
Administration 11
Administrative Boards, Committees 23
Admission 25, 37, 51, 52, 61, 62, 64, 78, 82
Advanced Standing 64, 75, 78
Advisers, Faculty 65
Aid, Student 43, 52, 78
Assembly 67, 69
Assistants 44, 53
Athletics 26, 30, 74, 75, 77
Atwood Hall 33
Auditors 37
Bachelor of Arts Degree 30, 32, 37, 62, 68, 71
Bachelor of Bus. Adm. Degree 30, 32, 37, 67, 80, 83
Bachelor of Education Degree 188
Biology 94
Board of Trustees 11
Buildings and Grounds 33
Business Administration 25, 30, 32, 37, 67, 80, 100
Calendar 7
Campus, Plan of 34
Certificates, Admission by 63
Chemistry 107
Classics 70, 113
Classification of Students 71
College 32, 62, 76
College Board 24, 26, 64
Commencement 7, 8
Conditions, Admission with 63
Degrees 30, 32, 37, 51, 53, 54, 62, 67, 68, 81
Degrees Conferred 189
Dining Hall 41
Diploma Fees 40, 53, 55
Dissertation (Ph.D.) 55
Doctor of Philosophy Degree 32, 51, 54
Dormitories 41, 76, 186
Economics 115, 186

Education 51, 125, 187, 188
Electives 63, 67, 82
Eligibility 75
English 62, 67, 70, 82, 129, 187
Estabrook Hall 35, 41
Examinations for Admission 64
Examinations for Graduate Degrees 54, 56, 58
Expenses 38, 59
Extra-Curricular Activities 74
Faculty 9, 12
Fees 38, 59, 74
Fellowships, Graduate 43, 52
Fellowships, Teaching 43
Fine Arts 67, 70, 135
Fine for Late Registration 66
Foreign Language 53, 54, 67, 70, 126
French 53, 54, 178
Freshman Induction 40, 65, 78
Freshman Programs 67, 83
General Education 92
Geography 30, 32, 57, 61, 140, 187
Geography Field Camp 56, 137, 138
Geology 147
German 53, 54, 148
Grading and Scholarship, Undergraduate 71
Graduate Board 23, 25
Graduate School 32, 51
Greek 67, 70, 113
Guidance Center, Veterans' 170
Gymnasium 35, 77
Health 77, 151
Historical Note 29
History and International Relations 61, 151
Honors, Undergraduate 24, 72
Interdepartmental Majors in Courses 89
International Affairs 51, 61
International Relations 151
Laboratory Fees and Deposits 39
Laboratory Work in Field 97, 147
Language Requirements 53, 54, 63, 67, 70
Latin 67, 70, 114
Library 32, 36
Loans to Students 45, 48, 53
Majors, Undergraduate 66
Master of Arts Degree 32, 51, 53, 58

Master of Arts in Education Degree 51, 125
Mathematics 63, 67, 69, 126, 160
Matriculation Fee 38
Medical Directors 11
Men's College 32, 62
Music 70, 135
Organization of the University 32
Philosophy 67, 163
Physical Training 68, 69, 77
Physics 165
Press, Clark University 32
Programs of Study 61, 66, 81, 87
Psychology 168
Publication Fees 40, 53, 55
Quality Requirements 63
Record, Statement of 38
Refunds of Tuition, Fees and Deposits . . . 39, 54, 55
Register of Students 193
Registration 66
Requirements for the B.A. Degree 68
Requirements for the B.B.A. Degree 83
Requirements for the M.A. Degree 53
Requirements for the M.A. in Ed. Degree 126
Requirements for the Ph.D. Degree 54
Residence 53, 68
Romance Languages 178
Russian 184
Scholarship Society 73
Scholarships 43, 52, 78
Senate 23
Sociology 122
Spanish 181
Special Students 37, 75
Summary, Registration 210
Summary, Degrees Conferred 192
Summer Term 39, 185
Table of Contents 3
Thesis (M.A.) 54, 126
Transfer Students 64, 78
Trustees, Board of 11
Tuition 38, 59, 186
Undergraduate College 32, 62
Veterans 68
Women's College 30, 32, 76
Worcester and the University 31

The Fine Arts

Department of Clark University

The program outlined in this Bulletin was approved by the Trustees of the Worcester Art Museum on February 28, 1950 and by the Faculty of Clark University on April 14, 1950.

The
DEPARTMENT OF FINE ARTS

ANNOUNCEMENT

1951-1952

CLARK UNIVERSITY
WORCESTER, MASSACHUSETTS

EXIT
PHILLIES

THE WORCESTER PLAN OF ART STUDY

Clark University now offers training in the profession of art as part of its program leading to the degree of Bachelor of Arts. Seven courses, distributed over four years, are taken in the School of the Worcester Art Museum. This co-operative arrangement offers a distinct opportunity to build sound professional foundations while continuing liberal education. It avoids the usual alternative of college or art school, one at the expense of the other.

Young men and women seeking careers in the visual arts face certain basic requirements. One is a broad acquaintance with the world of learning in our own time, another is proficiency in a particular vocation, and a third is a comprehension of high standards in relation to their work. These requirements are regularly met by three types of agency; a College, a School of Design, and a Museum of Art.

In the Renaissance the needs of art students were supplied in some measure by the environment and facilities of an artist's workshop and by the discipline of the apprentice system. The more notable of these shops were the haunts of learned men; they were set in urban localities rich in examples of fine painting, sculpture, architecture, and other design accruing from many generations.

The workshop of past centuries cannot be revived today. It belongs to a different kind of social order. But there have been attempts to fuse existing agencies required by the art student into some kind of union dominated either by college, museum, or school of design.

The plan developed in Worcester is not based on an attempt at fusion. It is based on collaboration. Each agency — Clark University, the Worcester Art Museum, and the School of the Museum — maintains its own particular character. The full advantages of each are offered to a student. There is another merit in this plan: the student of eighteen years is not forced rashly or too soon into a vocation for which he may not prove fit. The Worcester plan of art study allows for careful and directed testing of aptitudes in a variety of subjects which will widen the understanding and strengthen the mind no matter what special subject of study may be finally chosen.

Opportunities exist for young men and women with proper training in the following fields:

- TEACHING
- INDEPENDENT PRACTICE
- DRAFTING
- COMMERCIAL DESIGN
- MUSEUM WORK
- ADVERTISING
- INDUSTRIAL DESIGN
- ILLUSTRATION

It is worthy of especial note that other major galleries and private collections, in Boston, New York, Providence, Hartford, and Andover — to cite only a few — are within easy access of Worcester.

The Student's Work at Clark University

Students enrolled in this program fulfill the general requirements for the degree of Bachelor of Arts in Clark University. These include courses in English, in a foreign language, in the field of natural sciences or mathematics, and in the social sciences, providing "the broad acquaintance with the world of learning in our own time"; they discourage overspecialization while allowing considerable freedom of choice within the several departments.

It should be emphasized that students pursuing the course outlined are not enrolled in a separate school or in a radically different program. All enjoy the advantages of the University. But, whereas a majority of undergraduates take advanced courses in their major fields with members of the University faculty, students electing this program take major courses under the specialized faculty of the Museum School, thus benefiting by instruction and facilities not ordinarily available to undergraduates in a college program.

The Student's Work at the Museum School

The undergraduate shapes his own program at the Museum School in accordance with the general principle that a proper balance should be maintained for the purpose of well-rounded understanding of the arts. The sequence of courses may vary with the student's objective. Emphasis may be placed on courses in history and criticism and on those covering general theory — these providing a foundational knowledge leading to further study in the fields of art education or art history; special studies lead to the professional practice of painting or sculpture; or a sequence of courses in the field of special design may provide technical foundation for subsequent training in advertising design or product design. (See page 7 for Recommended Sequences of Courses.)

Seven courses taken at the Museum School are distributed over the four-year college period as follows:

	Clark	*Museum School*
FRESHMAN YEAR	4	1
SOPHOMORE YEAR	4	1
JUNIOR YEAR	3	2
SENIOR YEAR	2	3

Here is shown a progressive increase in emphasis on the fields of special interest, as is the case with all undergradute study.

When combined with the general academic requirements of Clark University, it may be estimated that each of the programs is approximately equivalent to a two-year course of study at a school of design. A certificate of graduation is given for a fifth year devoted to advanced aspects of professional work at the School of the Worcester Art Museum.

» » « «

A Major in the History of Art

Since 1940 Clark University has offered a major in the history of fine arts leading to the degree of Bachelor of Arts. While this program allows for a number of courses to be taken at the Art Museum School, only one (Drawing and Painting) is required. The Department also offers five courses in the history and theory of musical style, and there is conscious effort to relate the aural and visual arts. Since a background of history is essential to this program, special attention is given to cultural history through courses in Greek, Roman, French, and German Civilizations.

Recommended Sequence of Courses at the Museum School

Year	A General or Pedagogical	B Painting and Sculpture	C Special Design
I	Representation I	Representation I	Representation I
II	Color Relations	Natural Structures	General Design I
	History and Criticism I/2	Color Relations	Special Design I
III	Pictorial Design I	Pictorial Design I	Representation II
	History and Criticism II/2	Technics I (a and b) —	History and Criticism I/2
	Technics Ia —	[Representation II]	or Color Relations
	[Introd. to Teaching of Art]	Representation III or II	Special Design II
IV	Representation II (a and b)	General Design II	Practice of Illustration
	General Design II	Pictorial Design I —	Figure Representation I —
	Pictorial Design II —	[History and Criticism I/2]	[History and Criticism II/2]
	[History and Criticism III/2]	[Figure Representation I]	[Color Relations]
	[Figure Representation I]	[Technics Ia and b]	[Pictorial Design Ia]

For explanation of these titles see catalog of the Museum School.

(Square brackets refer to Alternative Courses)

Courses in the History of Art Offered at Clark University

D An introduction to Western Art: The Art of the Renaissance in Italy; The Art of the Seventeenth and Eighteenth Centuries; The Art of the Ancient Near East and India; The Art of China and Japan. Courses from this list may be substituted for courses in program **"A"** above.

Complete statements of both programs, together with a general statement of the University, are contained in the catalog available on application to

THE REGISTRAR
CLARK UNIVERSITY
WORCESTER 3, MASS.

The Catalog of the School of the Worcester Art Museum is available from

THE CLERK
SCHOOL of the WORCESTER ART MUSEUM
SALISBURY STREET
WORCESTER 2, MASS.

CLARK UNIVERSITY

BUSINESS ADMINISTRATION PROGRAM

Clark University Bulletin — Number Two Hundred and Two
Worcester, Massachusetts, Nineteen Fifty-one and Fifty-two.

CLARK UNIVERSITY BULLETIN
NO. 202 MAY, 1951

The Business Administration Program of Clark University

Business Education in a Liberal Arts College

The BULLETIN is published January, February, March, April, May, October, and November. Entered as second-class matter December 29, 1920 at the Post Office at Worcester, Mass, under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

CONTENTS

Administrative and Instructional Staffs 3

The Purpose of College Education In Business 5

Business Administration In A Liberal Arts College 6

The Clark Program In Business Administration 8

Transfer Students 11

Facilities 12

Requirements For Admission To The Division Of Business Administration 12

Requirements For Graduation With The Degree Of Bachelor Of Business Administration 13

Tuition And Other Expenses 14

The Business Curriculum 15

Administrative Staff

Howard B. Jefferson, President of the University
Homer P. Little, Dean of the College
Arthur F. Lucas, Chairman, Division of Business Administration

Faculty Committee on Business Administration

President Howard B. Jefferson, *ex officio*
Arthur F. Lucas, *Chairman*
John E. Bell — Homer P. Little
George E. Hargest — James A. Maxwell
Raymond E. Murphy

Business Administration Advisory Committee

W. Robert Ballard, Jr., *Vice-President,* John C. MacInnes Company
Donald W. Campbell, *Treasurer,* State Mutual Life Assurance ~~Insurance~~ Company
F. Harold Daniels, *President,* Riley Stoker Corporation
C. Lane Goss, *President,* Worcester County Institution for Savings
Albert Palmer, *Vice-President,* Crompton & Knowles Loom Works
Hiram Rasely, *Executive Vice-President,* Burdett College
Jacob Reed, *Senior Partner,* Reed & Company
William Sawyer, III, *President,* W. H. Sawyer Lumber Co.

Instructional Staff

Karl O. E. Anderson, Ph.D., *Associate Professor of English* English
John E. Bell, Ed.D., *Associate Professor of Psychology* Psychology
Philip H. Breen, A.B., LL.B., *Lecturer in Business Law* Business Law
Charles T. Bumer, Ph.D., *Professor of Mathematics* Mathematics
Robert F. Campbell, Ph.D., *Associate Professor of American History.* American History
Morris H. Cohen, Ph.D., *Assistant Professor of Government* Goverment

Eugene S. Gollin, M.A., *Lecturer in Industrial Psychology*
Industrial Psychology

George E. Hargest, Ed.M., M.B.A., *Associate Professor of Economics and Business Administration*
Accounting, Management

Edward H. Hastings, A.M., *Instructor in English*
English

Robert S. Illingworth, A.M., Ed.M., *Professor of Speech and Drama.* Public Speaking

H. Donaldson Jordan, Ph.D., *Professor of English History*
History

Eugene J. Kelley, Ed.M., M.B.A., *Assistant Professor of Economics and Business Administration.* Marketing

Frederick W. Killian, A.B., LL.B., *Associate Professor of Economics and Sociology.* Sociology

Dwight E. Lee, Ph.D., *Professor of European History*
History

Donald Letendre, A.M. in Ed., *Instructor in English*
English

Arthur F. Lucas, Ph.D., *Professor of Economics and Director of Division of Business Administration*
Business Organization and Finance, Government Regulation

James A. Maxwell, Ph.D., *Professor of Economics*
Money and Banking, Public Finance

F. Eugene Melder, Ph.D., *Associate Professor of Economics*
Labor Relations

Howard K. Moore, Ph.D., *Assistant Professor in English*
English

Raymond E. Murphy, Ph.D., *Professor of Geography*
Economic Geography

Joseph A. Nordstrom, M.S., *Assistant Professor of Business Administration.* Management

Sheldon Schaffer, M.A., *Instructor in Economics*
Business Cycles

Chester C. Stone, B.S., *Instructor in Mathematics*
Business Mathematics

Seymour Wapner, Ph.D., *Associate Professor of Psychology*
Psychology

Henry J. Warman, Ph.D., *Associate Professor of Geography*
Geography

THE PURPOSE OF COLLEGE EDUCATION IN BUSINESS

COLLEGE instruction in business administration has amply demonstrated its value in preparing young men and women for careers in commerce and industry. Although there is no substitute for actual experience in developing sound business judgement, systematic study of business problems provides an essential background for the acquisition of this experience. Businessmen are looking more and more to colleges to provide the fundamental training which contributes so much to business leadership.

The modern business world has become so complex that the experience of a single person can encompass only a small fraction of the whole. Experience needs to be supplemented with the broad training provided by well-rounded college programs of business education. Systematic study in college provides an opportunity to acquire the perspective and the capacity to think which are indispensible at the higher management levels.

Tremendous strides have been made in recent years in the development of principles underlying business techniques and procedures. Psychological principles are basic to successful selling, the administration of personnel relations and public relations generally. An understanding of economic trends is essential to many policy decisions. Statistical techniques which are dependent on basic mathematical processes provide the answers to many business problems. A knowledge of the legal basis of business and indeed of the whole political environment in which the business man must function is required by the growing magnitude and complexity of government regulations. Modern accounting analysis is an indispensible aid to successful business administration. Systematic study of these fundamental principles and techniques under competent instructors provides an effective approach to a business career.

BUSINESS ADMINISTRATION IN A LIBERAL ARTS COLLEGE

CLARK UNIVERSITY has long been known for the excellence of its educational program in arts and sciences. Young men and women will find a real advantage in procuring their business education in conjunction with such a program. When Clark decided to offer a systematic course of study in business administration, it did so with the conviction that the same educational principles and methods which had made its work in arts and sciences outstanding were equally applicable to the teaching of business. The same high standards of instruction that apply to other sections of the University also apply to the Division of Business Administration.

Modern trends in business education emphasize the importance of the basic and the general rather than the narrowly specific and technical. The most effective program of business education is one based on fundamental courses in economics, psychology, mathematics, the English language, and similar basic subjects. At Clark all the facilities of the arts and science programs are available to students of business. Subject to the requirements for the business degree, these students are entitled to attend all classes for which they are qualified, including those in psychology, economics, geography, history and other social studies, foreign languages, English, mathematics, chemistry and other natural sciences. Each student is expected to take several of these courses.

Of real value also is the opportunity to acquire training in specific subjects complementary to the major field of professional interest. Thus a young man or woman planning on a business career in the chemical industry may enroll in basic courses in chemistry. A student anxious to prepare himself for work in the field of foreign trade may acquire the necessary training in foreign languages, international relations and geography. One interested in the advertising profession may improve his skill in English composition and the practical arts. Many highly effective combinations of arts and sciences on the one hand and business on the other are possible.

The Clark business program prepares students for a wide variety of careers in business. Clark graduates have found success in many different lines of work. A list would include such varied occupations and positions as cost estimator, auditor, credit manager, traffic manager, office manager, sales engineer, production supervisor, assistant to general manager, claims adjuster, insurance broker, real estate broker, statistician, personnel work, advertising, investment analysis, retailing, market research, and many others.

Close contact between faculty and students, with small conference groups, is a tradition at Clark.

THE CLARK PROGRAM IN BUSINESS ADMINISTRATION

CLARK UNIVERSITY offers a four-year program in business administration leading to the degree of Bachelor of Business Administration. A special administrative unit of the University, the Division of Business Administration, directs the business curriculum. Its function is to coordinate and integrate the work of the various departments and to exercise general supervision over the program.

The objectives of the Clark program of business studies may be stated briefly as follows:

1. To acquaint the student with the economic, political and social environment in which business must be conducted so that he may relate his own experience to the entirety of business and industrial enterprise and may acquire the perspective that will enable him accurately to interpret seemingly isolated and unrelated phenomena.

2. To give the student an insight into the basic nature of modern industry and commerce; to acquaint him with the organization, the procedures and general characteristics of business and to familiarize him with the principles common to all successful business enterprise.

3. To afford the student an opportunity to acquire experience in analyzing business problems; to provide him with the tools necessary for precise decision-making; and to sharpen his judgment in order that he may be better able to distinguish fact from fancy; in other words, to train him to think intelligently about business problems.

4. To train the student in the basic techniques common to all business; and to give him some proficiency in the accounting, statistical, selling and other technical skills required by a successful business career.

INSTRUCTION at Clark is characterized by close personal relations between students and faculty. Classes are small and informal discussion is encouraged. Members of the faculty are readily available for consultation and advice. Numerous courses utilize the case or problem method of instruction wherein the student becomes acquainted with actual business problems. Laboratories, work-rooms and conferences provide abundant opportunity for individual attention.

A cardinal principle of the Clark curriculum is that a small group of basic courses is preferable to a large number of less essential subjects. Before each course is offered it is scrutinized from the standpoint of its value as a mental discipline, the significance of its factual information in reference to the objectives of the program, and its effectiveness in augmenting the student's technical skills. This has led to the development of a basic "core" of studies in English, economics, mathematics, accounting, law, statistics, government and speech. Courses in these subjects are required of all candidates for the business degree. Approximately half of the entire program consists of these basic required courses.

The remaining half of a student's program normally consists of optional courses, which fall into one or the other of two general types. One type consists of advanced courses designed to give the student a mastery of some professional field in business administration. In this group are courses in accounting, finance, personnel management, labor relations, advertising and selling, foreign trade and industrial and office management.

The second type comprises courses in general arts and sciences. It is expected that at least one of these courses will be taken each year. Students are not restricted in their selections but may choose any undergraduate course for which they are eligible.

At the end of the sophomore year, each candidate for the degree of Bachelor of Business Administration prepares in consultation with his faculty adviser an integrated program of studies covering the junior and senior years. These programs indicate the student's area of special interest and the specific courses he intends to elect. Typical of these integrated programs are the following:

Accounting

Intermediate Accounting
Cost Accounting
Auditing
Advanced Accounting
Industrial Management
Federal Tax Accounting
Office Management

Foreign Trade

Principles of Marketing
Foreign Trade
Economic Geography
Industrial Psychology
International Economics
A foreign language

Management

Intermediate Accounting
Cost Accounting
Personnel Management
Industrial Management
Office Management
Industrial Psychology
Analysis of Business Problems

Marketing

Principles of Marketing
Salesmanship
Advertising
Foreign Trade
Sales Management
Market Research
Industrial Psychology

Personnel Management

Industrial Psychology
Personnel Management
Industrial Management
Office Management
Labor Problems

Finance

Business Statistics
Business Organization and Finance
Money and Banking
Public Finance
Business Cycles
Analysis of Business Problems

Exceptionally qualified students may enroll in an "honors" program. This enables a student to substitute independent work under the guidance of an instructor for not more than two formal courses. He may use this work to fill gaps in his program or to extend his studies into special areas not covered by formal courses. Upon completion of this independent study and the sustaining of a comprehensive examination at the end of his senior year, a student receives "Honors in Business Administration." To be eligible to undertake an honors program a student must rank in the upper third of his class.

Students who wish to carry a standard four-year program in arts and sciences and receive the degree of Bachelor of Arts may obtain an abbreviated program in business administration since most business courses also carry credit toward the arts degree. Students wishing to receive the arts degree must meet all requirements for this degree including those in English, fine arts, foreign languages and sciences. These students should normally major in the Department of Economics and Sociology. It is highly desirable that students should have settled in their own mind which degree they wish to work for when applying for admission. Although transfer is possible, it usually results in some loss of credit.

Other essential features of the Clark program are periodic lectures by prominent business men and field trips to neighboring industrial plants.

TRANSFER STUDENTS

An increasing number of students who commence their college career in two-year junior colleges are finding it desirable to complete their education in a standard four-year institution. Clark accepts only those students who have demonstrated their ability to do satisfactory work at an advanced college level. Even with these students some loss of credit may occur. Because of the concentrated character of most two-year programs in business, students transferring to Clark frequently find it necessary to take a considerable number of general courses during their third and fourth years.

FACILITIES

All the facilities of Clark University are open to students of business. These include the library with its more than 200,000 volumes and 650 periodicals and newspapers, the gymnasium and other athletic facilities, the dormitories and eating hall, as well as the scientific laboratories and other facilities for instruction.

Worcester as the "industrial heart of the Commonwealth" provides an unexcelled setting for the study of business methods. Clark has enjoyed the support and cooperation of Worcester people and has many close associations with Worcester business. A majority of the business faculty is connected in some capacity with local or national firms and gives the students the benefit of these connections.

Clark has numerous scholarships and loan funds to aid deserving students. These are available to business students on the same basis as to other students of the college.

The Clark University Placement Bureau is available to business students for counseling and guidance in respect to the choice of a career. Assistance is also given graduates in finding suitable positions.

REQUIREMENTS FOR ADMISSION TO THE DIVISION OF BUSINESS ADMINISTRATION

The requirements for admission to Clark in the Division of Business Administration are similar to those in the arts program. Admission may be either by certification or by examination. A total of 15 units is normally required, which may be distributed as follows:

Required subjects	8 units
English	3 units
Mathematics (algebra)	1 unit
Foreign Language	2 units
Social studies	2 units
Elective studies	7 units
(of which as many as 3 units may be in commercial subjects)	
Total	15 units

Applicants who cannot present the necessary number of certified units should arrange with the Dean of the College to take College Board Examinations. Further information and application blanks may be obtained from the Dean of the College, or the Director of the Division of Business Administration.

A student applying for admission to Clark after attending another college is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally classified as a freshman, sophomore, junior, or senior and will be permitted to register for a program corresponding to this classification. He will not be given a final class rating until he has been in residence for at least one semester.

REQUIREMENTS FOR GRADUATION WITH THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

For graduation with the degree of Bachelor of Business Administration, a student must complete a total of twenty year courses (nineteen in the case of veterans) or their equivalent in semester courses. A student may receive credit for grades of D+, D, D— in not more than one-fourth of his courses.

A nearly uniform program is normally required of all freshmen. It includes the following courses: Principles of Accounting (B.A. 117), Elements of Distribution and Production (B.A. 10), English Composition (Eng. 11a), Business English (B.A. 14b), Business Mathematics (B.A. 13), and Physical Training. One optional subject of a non-business character is also taken.

Additional courses required of all candidates for the degree of Bachelor of Business Administration are:

Business Statistics (B.A. 16)
Business Organization and Finance (B.A. 18)
Business Law (B.A. 20)
Principles of Economics (Econ. 11)
Money and Banking* (Econ. 13)
Public Speaking (B.A. 17a)
Introduction to Government (Gov. 15)

---

*Under special conditions Economics 13 may be replaced by certain other courses in Economics.

Candidates for the degree of Bachelor of Business Administration are subject to the same general University and College regulations as apply to candidates for the degree of Bachelor of Arts except in so far as these are modified by the special requirements of the business program.

Use of the slide rule is explained to students in a business statistics class.

TUITION AND OTHER EXPENSES

Tuition per year	$450.00
Dining Hall (34 weeks at $10.50)	357.00
Room Rent per year	from 100 to 190.00
Activities Fee	20.00
Books and Supplies (estimated)	40.00 to 65.00
Matriculation Fee (new enrollees only)	5.00
Diploma Fee (upon graduation)	5.00
Induction Fee (freshmen only)	5.00

(All fees are subject to change)

THE BUSINESS CURRICULUM

Following is a selected list of courses offered by Clark University of special interest to students of business. It should be noted that the list does not include the many offerings in foreign languages, natural sciences, and advanced courses in English, history, geography, psychology, economics and sociology. Descriptions of these courses will be found in the general catalog. All courses listed below are full year courses, except those marked by an asterisk (*) which are for a half year.

Accounting

B.A. 117, Principles of Accounting. Mr. Hargest and Mr. Zukowski
B.A. 127, Intermediate Accounting. Mr. Hargest
B.A. 129a, Federal Tax Accounting. Mr. Hargest
B.A. 128, Cost Accounting. Mr. Hargest
*B.A. 227, Auditing. Mr. Hargest
B.A. 237, Advanced Accounting. Mr. Hargest

Economics

Econ. 11, Principles of Economics. Mr. Lucas
Econ. 13, Money and Banking. Mr. Maxwell
*Econ. 15a, Public Finance. Mr. Maxwell
Econ. 21, Business Cycles. Mr. Schaffer
Econ. 22, Labor Problems. Mr. Melder
*Econ. 25b, Problems in Public Finance. Mr. Maxwell
Econ. 26, Government and Industry. Mr. Lucas
*Econ. 29b, Economics and Transportation.
*Econ. 206b, Economics of Industry. Mr. Schaffer
Econ. 207, International Economics. Mr. Melder

English and Public Speaking

*Eng. 11a, English Composition and Literature. English staff
*B.A. 14b, Business English. Mr. Hastings
*Eng. 16b, Advanced Composition. Mr. Moore
*Eng. 111, Survey of American Literature. Mr. Anderson
*B.A. 17a, Public Speaking. Mr. Illingworth
*B.A. 17b, Public Speaking. Mr. Illingworth

Geography

Geog. 10, Principles of Geography. Mr. Warman
Geog. 16, Economic Geography. Mr. Murphy

History and Government

G.E. 14, Europe and the United States Since 1500. Mr. Jordan, Mr. Lee, and Mr. Campbell

Hist. 235b, The United States in the 20th Century. Mr. Campbell

Govt. 15, Introduction to Government. Mr. Cohen

Management

B.A. 10b, Elements of Production. Mr. Nordstrom

B.A. 18, Business Organization and Finance. Mr. Lucas

B.A. 20, Business Law. Mr. Breen

B.A. 112, Introduction to Personnel Management. Mr. Nordstrom

*B.A. 181a, Industrial Management. Mr. Nordstrom

*B.A. 182b, Office Management. Mr. Nordstrom

B.A. 220, Analysis of Business Problems. Mr. Kelley

Marketing

B.A. 10a, Elements of Distribution. Mr. Kelley

*B.A. 23a, Advertising. Mr. Kelley

*B.A. 23b, Salesmanship. Mr. Kelley

*B.A. 27a, International Trade and Finance.

*B.A. 125, Retailing Principles. Mr. Kelley

*B.A. 207, Market Research. Mr. Kelley

*B.A. 209, Sales Management. Mr. Kelley

Mathematics and Statistics

B.A. 13, Business Mathematics. Mr. Stone

B.A. 16, Business Statistics. Mr. Hargest and Mr. Nordstrom

Math. 11, Freshman Mathematics. Mathematics staff

Math. 17, Mathematical Statistics. Mr. Bumer

Psychology

Psych. 11, General Psychology. Mr. Wapner

*Psych. 190a, Industrial Psychology. Mr. Gollin

Sociology

Soc. 11, Principles of Sociology. Mr. Killian

For further information on the character of the business program, address the Director, Division of Business Administration, Clark University, Worcester 3, Massachusetts.

For general information and application blanks, address The Dean, Clark University, Worcester 3, Massachusetts.

CLARK UNIVERSITY BULLETIN

The President's Report

1950 – 1951

WORCESTER, MASSACHUSETTS

CLARK UNIVERSITY BULLETIN

No. 204 November, 1951

The President's Report

1950 — 1951

THE BULLETIN is published January, March, May, September and November

Entered as second-class matter December 29, 1920 at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

CLARK UNIVERSITY

The President's Report for 1950-1951

The year 1950–51 began in an atmosphere of crisis and continued in a state of uncertainty. The picture for higher education appeared dark and it was difficult to make intelligent plans because the conditions under which we had to work were unclear. Despite this situation there were a number of encouraging developments during the year. For one thing, the students, who were carrying on their studies under most trying conditions, maintained a surprisingly high morale. In the second place, we showed our deep convictions with respect to the importance of higher education and our faith in the future of Clark by launching our Seventh Decade Fund. I shall begin my report by a discussion of this latter item.

Development Program and the Seventh Decade Fund

In reporting upon our Seventh Decade Fund, I wish to make some preliminary comments. First, Clark has always been modest about presenting its needs to the public and about asking for help to meet those needs. The tradition lingered long that Jonas Clark had so richly endowed the institution which bears his name that it would never be in need of additional resources. The only capital funds campaign carried on prior to the launching of the Seventh Decade Fund was the one conducted in the middle thirties and which provided for Clark the Alumni Gymnasium, the Library Tower, and Atwood Hall. In comparison with other institutions, Clark's appeals have been extremely moderate in respect both to amounts sought and the tone in which they were conducted.

But any days of easy affluence which may have existed have long since disappeared. Every educational institution must now be on the alert for funds and must put forth a conscious and organized effort to secure them. The effort to maintain all existing sources of interest and to open new ones must be an ongoing activity. Although our plans have not yet been realized in complete form, we visualize at Clark a Development Office, competently staffed and working consistently and intelligently at the problem of public relations and of enlarging our resources. The Seventh Decade Fund can be seen, therefore, as one part of a general program. My report on the Fund can be seen also as an interim report, since the campaign is being vigorously prosecuted and will continue to be so for some time to come.

As the first step in working out the Seventh Decade Fund appeal, we made a careful study of our needs, dividing them into "immediate" and "long-range" categories. It was clear that the first item on our list should be the improvement of faculty salaries, the purchasing power of which had been seriously cut by the rise in prices. Salaries of teachers have risen over the years, but they have done so slowly, and the sharp inflation which we have experienced has wiped out a large proportion of the gains made over a quarter of a century. The same factor has affected the ability of brilliant young men and women to go on to do graduate work. At a time when the country needs learned and professional men as never before, many are being lost to these causes because they must take jobs to support themselves immediately on graduation from college. The same factor also affects the ability of promising boys and girls to go on from high school to the colleges. We therefore added to our "package" of immediate needs, funds for the support of graduate fellowships and for the support of undergraduate scholarships.

We made the decision to seek these funds (for the improvement of salaries, graduate fellowships, and scholarships) as expendable moneys, disbursable over a ten-year period, rather than as endowment. The reason for this decision was a very practical one. It would have required $1,500,000 in endowment at the least to provide an income sufficient to make up the sums we needed. It did not seem that we could secure this sum in time to make an impression on a very critical situation. The idea of expendable funds has received wide acceptance. We are confident that in a ten-year period we shall accumulate, through gifts and bequests, the capital funds necessary to care for increased expenditures.

Of our several building needs, we decided upon two for inclusion in the Seventh Decade Fund schedule of immediate requirements. One was a University Hall, which would serve as a badly needed administration building and as a center for certain faculty and student activities. Such a building will relieve the overcrowding in Clark Hall by taking out of that structure the administrative offices now located there. There is also a pressing requirement for more space in the Chemistry and Physics Building, particularly for lecture rooms. Fortunately, this building is so solidly constructed that an additional floor can be added at a very moderate cost.

The schedule of immediate needs, therefore, which we presented to our alumni and friends through the Seventh Decade Fund appeal was as follows:

1. $300,000 in funds expendable over a ten-year period for the improvement of faculty salaries.
2. $200,000 similarly expendable for graduate fellowships.
3. $100,000 similarly expendable for undergraduate scholarships.
4. $400,000 to provide a University Hall.
5. $100,000 for the enlargement of the Chemistry and Physics Building.

The public phase of the Seventh Decade Fund campaign began immediately after Open House which was held on Sunday, April 15. We organized Open House as a means of informing our Worcester friends as to the many interesting and worthwhile things that go on within a modern university. The attendance was between 2500 and 3000 persons. The faculty, which bore most of the burden of arranging the exhibits, demonstrations, audience-participation events, concerts, and so on, were so well pleased with the result that they have testified to their willingness to undertake similar events, at least once every two years and preferably every year. A large share of the credit must go to the women's committees headed by Mrs. Robert H. Goddard and representing the Women's Advisory Board, the Faculty Women's Club, and the Alumnae Association. Through their effort the reception in the Alumni Gymnasium made a pleasant climax to the afternoon. It was, in fact, an enterprise in which the whole University community shared, an excellent pattern for the fund-raising effort which followed immediately upon it.

I am pleased to report that as of October 26, Clark has received 1615 gifts with a total value of $402,634. This has made it possible to meet our primary need, namely an increase in faculty salaries. The following brief comments bear upon particular phases of the effort.

Workers

Because the University's only prior fund-raising effort had taken place fifteen years ago, it was difficult for us to know just how many persons could be relied on for help in manning and operating the Seventh Decade Fund effort. Our hopes were exceeded. Alumni and non-alumni to a total of 285 proved themselves willing to undertake onerous duties. Our thanks go to them, particularly to those who are not bound to us by alumni ties. Their willingness to work for Clark is sterling evidence of the regard in which we are held in the community.

Faculty, Students and Staff

The faculty were first in completing their phase of the campaign with a 96 per cent participation. Their campaign was followed shortly by that of the students, whose record of participation was

76 per cent. We were especially pleased also that 47 per cent of the non-teaching staff contributed to the effort.

Commerce and Industry

In respect to commerce and industry, we again had no experience to rely on because Clark had never appealed to this sector of our public for support. Again our hopes have been exceeded. A little over half of the sums received has come from the business and commercial establishments of Worcester; included in that sum is the largest gift so far made toward the Fund. It has been heart-warming to find business and industry willing to support an institution which is basically devoted to the liberal arts. An appreciation of Clark contributions in basic science has comprised one reason for giving; others are realization of Clark's value in creating the kind of progressive community in which business best thrives, and the realization that free enterprise in education and free enterprise in business have a stake in common and that what benefits one also benefits the other.

Alumni

ALUMNI GIFTS TO CLARK IN 1951

To the Seventh Decade Fund	568	$70,294.58
To the Alumni Fund	426	4,057.00
To both	282	3,107.00
	1276 gifts	$77,458.58

The 1276 gifts listed in this table were made by 994 individuals, constituting 25 per cent of the alumni body.

The Alumni Fund Drive for 1951 is not yet completed; neither is the solicitation for the Seventh Decade Fund. The figures given above will be increased by the end of the year. All in all, the picture of alumni participation and support is one of increasing momentum.

Foundations

We have, of course, carried our appeal to foundations, and several of those which operate on a national scale have received proposals from us looking toward contributions to the Development Program. We are indebted to a local foundation for gifts totalling $20,000, designated for the enlargement of the Chemistry and Physics Building. Some of our contributors of special gifts have made their donations through family foundations or trusts.

We have received from the Rockefeller Foundation a grant for research work in psychology. The grant is to be used for the study of language development in children. The United States Public Health Service has made two grants to the Department of Psychology, one for a research project and the other for training in Clinical Psychology. The United States Navy is supporting work in chemistry related to defense.

The total of these research grants is $46,060 for the year 1951–52. One agency has made future commitments with a value of $62,274, and we are confident that others will continue support of projects beyond the present year. Most of this money is not strictly applicable to the stated objectives of the Seventh Decade Fund; however, the grants are to be viewed as a part of the general development effort which began two years ago. The effect of such grants is good. They promote the studies through which knowledge is advanced, and they refresh the zeal of our faculty researchers and advanced students.

Work for the Seventh Decade Fund will continue and will be expanded into new areas, such as Worcester County outside the city. Twenty-five per cent of our students come from localities which are outside the city but still within the county. We know that there are many persons and organizations sympathetic to Clark in these places. We would particularly like to see scholarship funds established for the benefit of boys and girls coming from the county. The needs of young people from the City of Worcester are fairly well taken care of by the Ellis Funds, but no such funds exist for the benefit of those coming from outside. To keep our student aid program in balance we need such funds.

Beyond the Seventh Decade Fund program, there are of course needs which fall into the "long-range" category. We count on increasing our endowment through gift and bequest with the goal in mind of raising the present total of approximately $6,000,000 in invested funds to $10,000,000. A modern dormitory for our women students would relieve us of the necessity of supporting three residence units, none of which was ever designed for the housing of students. A second residence hall is required for the housing of men, particularly graduate students. A third physical need is that of providing shelving in those floors of the book tower which were never completely finished.

I am glad to close this interim report on the progress of our Seventh Decade Fund and our development plans generally with a word of thanks to those who have given so generously in time and money. We like to think that this is a good enterprise, particularly since it deals with the ever-recurring generations of American youth, and by serving them strengthens the fabric of the country as a whole.

Student Morale

Those who may have doubts concerning the quality of our human resources would have been heartened to see the way in which college students adjusted to a most difficult situation during the past year. There was no clear indication as to where their duties lay. At times they were given the impression that they were to rush into the armed forces immediately. Next they were told of the need for trained personnel and that they should continue with their education until they could be of greater use in maintaining the strength of the nation. Again, they were given the impression that they would be permitted, only reluctantly, to remain in college for the time being. Under these conditions it would not have been surprising to find a mood of irresponsibility, purposelessness and defeatism sweeping the campus. Although there were times when a mood of this sort did threaten to engulf us, I am pleased to report that the students made an excellent adjustment to the situation and that, on the whole, a relatively high morale was maintained.

SUMMER TERM

Among the plans which were discussed in the light of impending heavy mobilization was the provision of increased opportunity for study during the summer. In my last report I referred to the termination of our long twelve-weeks summer school in 1949 and the return to a six-weeks summer school in 1950 which was designed particularly for graduate students and advanced undergraduates. It seemed to many members of the faculty that conditions had so changed in the summer and fall of 1950 that it would be desirable to reinstate the twelve-weeks summer term in which courses would be available to all undergraduates as well as to graduate students. After careful study, a special committee of the faculty recommended that we return to the twelve-weeks summer term in 1951 and this recommendation was adopted by the faculty as a whole. The special feature of the summer school as worked out in 1950 was retained for the first of the two six-weeks sessions in 1951. A program of studies unified around the central theme of "Citizenship in the Modern World" was designed primarily for secondary school teachers, school administrators, advanced undergraduate and graduate students. In addition to this special program, courses were offered in other fields and at the freshman and sophomore levels. These undergraduate courses were continued during a second six-weeks period ending on September 14.

Dean Little, who served as Director of the Summer School, has reported that the school was successful in meeting the needs as envisaged. We had not anticipated a large attendance but the enrollment was clearly up to, if not in excess of, our expectations. During the first six weeks 254 students were enrolled, and there were 144 in the second term. As will be indicated later in the statistical report of degrees granted, we held graduation exercises on September 14.

SERVICE TO THE COMMUNITY

For many years individual members of the Clark faculty have made their special training and talents available to the community. Each year they speak before a number of organizations and assume leading roles in the work of community enterprises. As examples of the latter, I refer to the work of Professors Van Valkenburg and Gunter in the Civil Defense Program, Professor Lee in the Citizens Plan E Association, and Professor Hayden in the Foreign Policy Association.

During the past year there have been two programs that call for special mention. In the first place, we have discovered that it is possible to combine a technique of learning and practice in research with a service to the community. The undergraduate class in Marketing, under the direction of Professor Eugene J. Kelley and in co-operation with Radio Station WTAG, conducted a shopping habit survey which resulted in the accumulation of important and useful data. In the second place, the Department of Education organized a high school guidance program as a service to interested schools within a radius of 40 miles of the University. When plans for this service were announced there was an enthusiastic response from 22 high schools, and 127 students participated in the program. For the most part these were secondary school juniors and seniors who desired guidance in their plans for some kind of further education beyond high school. An individual guidance interview was held with each student in his own school and the entire group of 127 came to the University on two different days for testing. Professor Lane was in charge of the guidance and Professor Jones of the testing. This program proved to be extremely valuable in supplementing the guidance services available in the schools themselves.

THE FACULTY

Although there have been no significant changes in the curriculum of the Graduate School or of the College during the past year, there has been a continuation and deepening of certain developments that began some time ago. There is the continued exploration on the part of the Graduate School faculty to find ways of training graduate students for successful careers as college teachers. In the College there has been further development in the program of General Education and in the attempt to reach a mutual understanding on the ultimate purpose and meaning of liberal studies. To help in the latter, the Academic Council proposed that members of the faculty meet for an all-day conference immediately preceding the opening of the present academic year. This suggestion was followed out, and the results were such as to justify further conferences of this sort.

As usual, members of the faculty have been active in research and publication during the year. The Faculty Bibliography shows that there has been a total of more than 50 publications by 28 members of the faculty. In this connection it may be well to mention, also, the revival of a literary magazine which, although primarily the work of undergraduates, was guided by the members of the Department of English. The older magazine, called the *Clark College Quarterly*, ceased publication in 1933. The revival of this activity with the first issue, called *The Helicon*, in the spring of 1951, is a healthy sign of creative interest, and the quality of the magazine deserves continued support.

Leaves of absence under three different categories have been granted for the current year. In the first place, Professor Arthur F. Lucas has been granted a year's leave of absence to work as consultant with the Select Committee on Small Business and will spend the year in Washington, D.C. In the second place, a good deal of interest was expressed in the announcement by the Fund for the Advancement of Education, of the Ford Foundation, concerning a Faculty Fellowship Program. Two members of the faculty, J. Fannin King, Assistant Professor of Romance Languages, and Morris H. Cohen, Assistant Professor of Government, applied and were granted fellowships under these auspices. Professor King is spending a year at Columbia University studying the history of ideas in relation to literary criticism. His interest in this field is prompted particularly by the work in our General Education course, Literature and the Nature of Man. Professor Cohen will spend a considerable amount of his time studying the processes of government at first-hand and will also spend some time in the college program of the University of Chicago. In the third place, the first leave of absence has been granted under the new plan of sabbatical leaves. Professor Vernon Jones is away from the campus during the first semester, spending all of his time on a project in connection with character education in the schools.

Resignations

The following resignations were accepted during the year: Donald MacGillavry, Jr., Associate Professor of Chemistry; Herbert F. Barnett, Associate Professor (Affiliate) of Fine Arts; Robert R. Christian, Instructor in Mathematics; Chester C. Stone, Instructor in Mathematics; Peter E. Welti, Instructor in German; Jo Ann Daigler, Assistant Director of Physical Education for Women.

Appointments

The following persons have been appointed to the faculty: Gerson Kegeles, Associate Professor of Chemistry; Daniel Gorenstein, Assistant Professor of Mathematics; William F. Dowling, Jr., Instructor in Government (replacing Professor Cohen for the year 1951–52); Stanford L. Luce, Jr., Instructor in Romance Languages (replacing Professor King for the year 1951–52); Roger C. Norton, Instructor in German; Walter H. Zukowski, Instructor in Economics and Business Administration; Frances Cockrell, Assistant Director of Physical Education for Women; Chelcie C. Bosland, Visiting Lecturer in Economics and Sociology.

No report on the faculty would be complete without a special word of appreciation for Dr. Charles B. Fawcett who has been a Visiting Professor in the School of Geography for the past two years. His influence extended far beyond his own classes and beyond the School of Geography to the University as a whole.

THE BOARD OF TRUSTEES

At the spring meeting of the Board of Trustees, Roland A. Erickson (A.B. '35), President of the Guaranty Bank & Trust Company, was appointed a permanent member of the Board. Mr. Erickson has served as Alumni Trustee since 1947.

In June, Dr. Henry C. Marble (A.B. '06) of Boston was elected to the Board of Trustees as a representative of the Alumni Association for a four-year term.

COMMENCEMENT

The sixty-first annual Commencement was held in the Worcester Memorial Auditorium on June 9 with the Honorable Henry Cabot Lodge, Jr., Senator from Massachusetts, as the speaker. The following honorary degrees were conferred: Senator Lodge, Doctor of Laws; Frederick Charles Bersworth, Doctor of Science; Hugh

Llewellyn Keenleyside (A.M. '21, Ph.D. '23), Doctor of Laws; Fred Albert Mettler (A.B. '29), Doctor of Science; Clarence Prouty Shedd (A.B. '09, A.M. '14), Doctor of Humane Letters. In addition, degrees were conferred upon 273 members of the graduating class as follows: B.B.A., 55; A.B., 140; M.A. in Ed., 19; M.A., 43; Ph.D., 16.

At the close of the Summer Term, on September 14, 36 degrees were conferred as follows: B.B.A., 9; A.B., 16; M.A., 9; Ph.D., 3.

It is my desire that this report should end on the same note with which it began. An accurate description of that note is given by these words: "beyond despair." Surely there are factors which might produce a mood of despair in us who are today responsible for institutions of higher education. Only those who live with the problems day in and day out fully realize the implications of continued inflation and of military mobilization for the colleges and universities. And yet we at this University have transcended despair, because of our profound faith in the future of American higher education in general and of Clark in particular.

HOWARD B. JEFFERSON, *President*

November, 1951

CLARK UNIVERSITY BULLETIN
WORCESTER MASSACHUSETTS

Summer School Program

Clark University

June 23 to August 8
1952

For Undergraduates, Graduate Students and
Secondary School Teachers

The BULLETIN is published seven times a year, January, February, March, April, May, October, and November.

Entered as second-class matter December 29, 1920 at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

CLARK UNIVERSITY BULLETIN

No. 205 January 1952

A SPECIALIZED SIX-AND-ONE-HALF-WEEK SUMMER SCHOOL

WITH EMPHASIS ON STUDY IN

Economics
Education
English
Geography
History
Psychology
Sociology

AS SUBJECTS TO BE INTEGRATED AROUND A CORE THEME:

PROBLEMS OF CITIZENSHIP TODAY

TOGETHER WITH INDEPENDENT COURSES IN

Biology
Business Administration
French
German
Spanish

THE PROGRAM IS PLANNED FOR UNDERGRADUATE STUDENTS, GRADUATE STUDENTS, AND TEACHERS IN SECONDARY SCHOOLS

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

Howard B. Jefferson, President

Homer P. Little, Dean of the College and
Director of the Summer School

SUMMER SCHOOL STAFF

All instructors are members of the Clark University faculty unless otherwise indicated.

Biology

Rudolf Fink Nunnemacher, Ph.D., Associate Professor of Biology.

Business Administration

George Edward Hargest, M.B.A., Associate Professor of Economics and Business Administration.

Economics

Sheldon Schaffer, M.A., Instructor in Economics.

Education

Vernon Jones, Ph.D., Professor of Educational Psychology, Chairman of the Department of Education.

Victor B. Johnson, Ed.D., Assistant Professor of Education, Associate Dean for Men.

David Lane, M.A., Assistant Professor of Education, Director of Placement Bureau.

English

Karl O. E. Anderson, Ph.D., Associate Professor of English, Chairman of the Department of English.

William H. Carter, Jr., Ph.D., Assistant Professor of English.

French

Donald E. MacQueen, M.A., Instructor in Romance Languages.

Geography

Samuel Van Valkenburg, Ph.D., Professor of Geography, Director of the Graduate School of Geography.

Neville T. Scarfe, Ph.D., Head of School of Education, University of Manitoba.

Guy H. Burnham, M.A., Instructor in Geography, Cartographer, Graduate School of Geography.

German

KARL J. ARNDT, Ph.D., Professor of German, Chairman of the Department of German.

History

CARROLL M. ABBOTT, A.B., Teacher of Social Studies, South High School, Worcester; Principal, Worcester Evening High School; former Instructor in Economics, Worcester Junior College.

ROBERT F. CAMPBELL, Ph.D., Associate Professor of American History.

MARC RAEFF, Ph.D., Instructor in Russian Language and History.

Psychology

To be announced.

Sociology

FREDERICK W. KILLIAN, LL.B., Associate Professor of Sociology and Economics.

Spanish

WALTER A. RAMSEY, M.A., Assistant Professor of Romance Languages.

The Plan

PART I

In the summer of 1952 Clark University is again offering a specialized summer session program. The program is built primarily around the areas of Education, Geography, Economics, English, History, Psychology, and Sociology, together with one course in Business Administration.

Many of the courses have been selected and prepared with special consideration for the functional needs of teachers and other graduate students. One of these needs, for example, around which many of the courses are organized is that of the development of youth in citizenship, broadly defined. An allied need is for the guidance and leadership of youth in their attempts to understand current problems in the national and international scene. Through regularly organized courses and panel discussions, the staff will work intensively and cooperatively with teachers and prospective teachers in attacking these problems of youth.

Advanced undergraduates will also find courses of much interest.

INTEGRATION OF EDUCATION AND SUBJECT-MATTER FIELDS

Leading professors in the University in the areas of English and the Social Sciences are cooperating with the Department of Education in an effort to make the full resources of the University readily available to teachers in extending their backgrounds in these subject-matter areas and in planning their work in light of the changing conditions affecting youth.

The underlying purpose will be to meet the needs of teachers in their actual classroom situations. This will be achieved by providing opportunities for teachers to extend their knowledge in one or more subject-matter fields, by encouraging detailed course and curriculum planning in Education courses, and by the informal interchange of ideas in student-faculty contacts on trips, in conferences, and in weekly panel discussions.

SMALL, INTIMATE CLASSES AND WORK GROUPS

It is the intention of the administration and faculty of the Summer School to keep the number of students in class and work groups sufficiently small to permit a broad interchange of ideas and experiences, a friendly and intimate relationship among the students, and frequent opportunities for student-faculty contact and consultation.

DISCUSSIONS, OBSERVATIONS, READINGS

The presence of such a large percentage of subject-matter specialists in our faculty team should not only add much to the richness of the course offerings but also serve to make readily available to teachers, through informal discussion and conference, background materials and reading references which would otherwise require more arduous study than the practicing teacher normally has time for on the job. The weekly panel discussions by the faculty and selected teachers from the field will highlight the resources function of the faculty and student body as a whole.

It is the intention of the Summer School to emphasize critical thinking, discussion, and practical planning on the part of teachers. Opportunities will be provided for teachers to have work conferences and discussions with each other and with members of the staff, with a view to translating their learnings and experience into concrete plans for improved instruction in their schools.

PART II

Certain courses will be offered to undergraduates outside the major plan of the Summer Term. Through the cooperation of members of the departments of Biology, French, German, and Spanish, courses are offered in those fields with the understanding that if less than eight elect a given course it will be withdrawn. Students whose homes are not in Worcester are advised to register promptly by mail in order that the probability of a satisfactory enrollment may be determined early.

Except for Biology each course in these fields will be a double course, meeting twice daily, and will constitute a full program for the summer. It is anticipated that the concentrated effort involved in such a course will contribute to rapid progress.

THE LOCATION OF THE SUMMER SCHOOL IN RELATION TO TRIPS AND OFF-CAMPUS STUDY

Clark University is situated at almost the exact center of Massachusetts. Opportunities will be provided for weekend visits to the following places which are within easy driving distance of the University: Plymouth, Concord, Lexington, Boston and the seashore, the reconstructed Sturbridge Village, and other points of geographic, historic, and literary significance. Many of these points of interest are shown on the pictorial map. Those wishing to supplement the trips associated with the Summer School may readily arrange profitable weekend outings of their own planning.

Worcester and its immediate environs provide excellent demonstration and field-work facilities in the areas of economic, recreational, cultural, religious, and civic life.

Courses

Courses whose number begins with "2" are open to teachers and other graduate students and to advanced undergraduates. Courses beginning with "1" may be elected, but teachers desiring to take such courses should consult with the Chairman of the Department of Education before registering; other students should consult with the instructor in the course. Courses whose number begins with "1" are open to all undergraduates except Freshmen. If the number is preceded by an "F," the course is open to Freshmen as well.

Courses meet for a seventy-five minute period.

BIOLOGY

F Biol. ST 17. *Animal Ecology.* An introductory study of the distribution of animals, their interrelationships and adaptations to such a wide variety of environments as the seashore, sand dunes, woodlands, and ponds. Each week there will be a field trip to a different type of environment and a laboratory period to study the collected material. Previous courses in Biology are helpful but not required.

Daily, except Saturday, at 12:05; field trip Monday afternoon; lab. Tuesday, 2:00-5:00.

MR. NUNNEMACHER

Biol. ST 20. *Histology.* A microscopic study of the structure of tissues and organs. Particularly suited to the needs of the pre-medical student. A previous course in comparative anatomy required.

Daily, except Saturday, at 9:15; lab. Tu. Wed. Th., 2:00-5:00.

MR. NUNNEMACHER

BUSINESS ADMINISTRATION
(See Also Economics and Psychology)

B.A. ST 16. *Business Statistics.* This course is designed to give students knowledge and experience in the collection and presentation of statistical data and in the handling of the basic tools of statistical analysis; and their application to sampling and tests of significance, to index numbers, time series, and correlation analysis in so far as these techniques are useful in the analysis of problems in economics and business. Teachers in secondary schools will find in this course many suggestions helpful in the presentation of their subject-matter. Indivisible double course. Required for the degree of Bachelor of Business Administration.

Daily, except Saturday, at 7:50 and 9:15.

Mr. Hargest

ECONOMICS

Econ. ST 211a. *Current Economic Problems.* This course has been planned with the broad needs of the non-specialist in mind. The complexities of mobilization, inflation, unemployment, government finance, income distribution, labor relations, and foreign aid will be broached in a manner designed to emphasize the basic relationships of our contemporary economy.

Daily, except Saturday, at 7:50. Mr. Schaffer

Econ. ST 211b. *Comparative Economic Systems.* Educators who want to think out the merits of conflicting claims and charges about various economic systems will find here an opportunity to develop and evaluate their own thoughts on this subject. This course will start with a brief, general examination of capitalism and socialism, and then will follow with a study of the economic systems of the United Kingdom, the Union of the Soviet Socialist

Republics, and the United States. Time permitting, some attention may be devoted to fascism.

Daily, except Saturday, at 10:40. MR. SCHAFFER

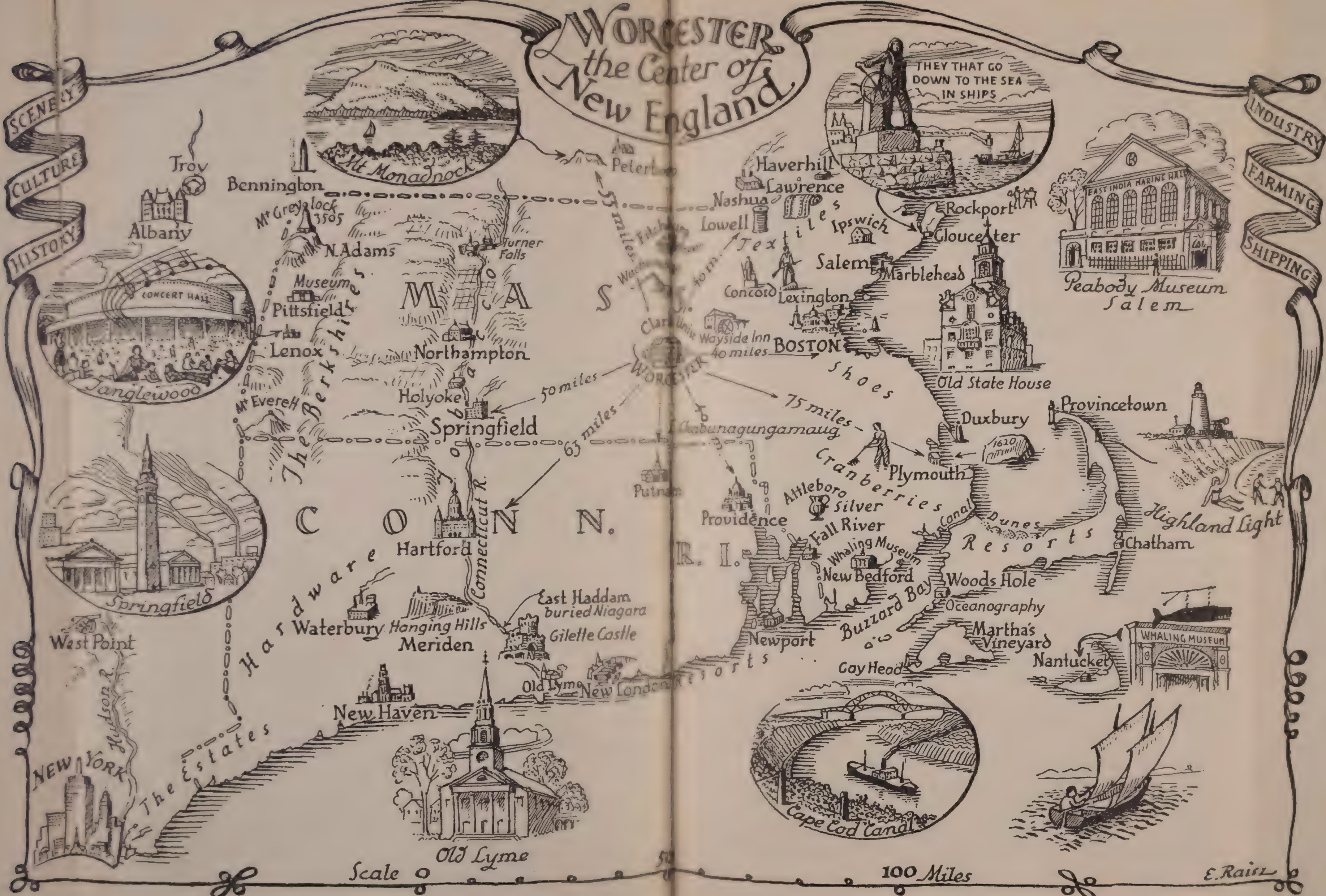
EDUCATION

Educ. ST 201a. *Educational Psychology—Child Growth and Development*. This course is designed to help teachers and prospective teachers to understand some of the main principles of learning, growth, and emotional development of children, with particular reference to pupil learning and conduct in the elementary school period. The course will include some attention to specific techniques used in studying and guiding school children, both individually and in groups, but the main emphasis will be on assisting teachers to develop insights which will aid them in their work with children and parents.

Daily, except Saturday, at 10:40. MR. LANE

Educ. ST 210. *Character and Citizenship Development: A Psychological Approach*. A study of the main problems of learning and teaching in the area of moral values and citizenship development. Among the topics to be considered are: human motivations; the impact of the culture in determining personal and social attitudes and conduct; the influence of such communication media as newspapers, books, motion pictures, radio, etc., the rôle of the teacher and the parent in individual guidance; the problems of maladjustment, misconduct, and delinquency; some principles in educational planning. Provision will be made for teachers in the course to submit individual problems for study and discussion. Some attention will be given to student projects involving the development of local programs and teacher training for participation in such programs.

Teachers who are responsible for the development of citizenship programs or for teacher training for such pro-


Worcester the Center of New England
Scenery
Culture
History
Industry
Farming
Shipping
Mt Monadnock
They that go down to the sea in ships
Peabody Museum Salem
East India Marine Hall
Troy
Bennington
Albany
Mt Greylock 3505
N. Adams
Museum
Pittsfield
Lenox
Concert Hall
Tanglewood
Mt Everett
The Berkshires
Springfield
West Point
Hudson R.
New York
The Estates
Hardware
Peterboro
Turner Falls
M A S S
Northampton
Holyoke
Springfield
50 miles
63 miles
55 miles
40 miles
75 miles
Fitchburg
Wachusett
Clark Univ
Worcester
Wayside Inn
BOSTON
Haverhill
Lawrence
Nashua
Lowell
Textiles
Ipswich
Rockport
Gloucester
Salem
Marblehead
Concord
Lexington
Old State House
Shoes
Chaubunagungamaug
Putnam
Providence
Attleboro Silver
Cranberries
Plymouth
1620
Duxbury
Provincetown
Highland Light
Chatham
Dunes
Resorts
Canal
Fall River
Whaling Museum
New Bedford
Buzzard Bay
Woods Hole
Oceanography
Martha's Vineyard
Nantucket
Whaling Museum
Gay Head
Newport
R. I.
C O N N.
Connecticut R.
Hartford
Waterbury
Hanging Hills
Meriden
East Haddam buried Niagara
Gilette Castle
Old Lyme
New London
Resorts
New Haven
Old Lyme
Cape Cod Canal
Scale 0
100 Miles
E. Raisz

grams and who wish to concentrate on these problems for all or part of the six-week period should communicate with the instructor in advance.

Daily, except Saturday at 12:05. Mr. Jones

Educ. ST 216. *Group Guidance and Citizenship Development.* The problems and techniques of group guidance will be studied in the broad framework of the socialization process of youth. The possibilities of the use of group guidance as a diagnostic instrument for the understanding of the present orientation and values of youth as well as an instructional method will be considered in some detail. The interrelations among the educational, vocational, personality and social-ethical aspects of guidance will be illustrated with new resource materials.

Daily, except Saturday at 9:15. Mr. Jones

Educ. ST 217a. *Principles and Practices of Individual Guidance.* A survey of the philosophy, principles, and some of the techniques of the secondary school guidance program. The course is planned to help teachers improve their understanding and competence in the guidance functions of teaching, and also to serve as an introductory course for students who plan to work more intensively in guidance. Special attention will be given to methods of studying the individual (tests, records, case studies, interviewing, etc.) and to vocational aspects of guidance. Actual case materials will be studied.

Daily, except Saturday, at 9:15. Mr. Lane

Educ. ST 222a. *Curriculum Development in Secondary Education.* A consideration of principles and practices in curriculum construction at the secondary level. In addition to a review and analysis of various types of organization, including separate subjects, core curriculum and general education, attention will be directed to other efforts to reform the offerings of the school. Special emphasis will be given to the rôle of the teacher and certain agencies in the community, and what they can do to help in providing school experiences that will function in the development of good citizens.

Daily, except Saturday, at 7:50. Mr. Johnson

NOTE: Students interested in Education should also read the description of the following courses:

Geography ST 20. *Geography in Education.*

History ST 206b. *Teaching History and the Social Studies in Secondary Schools.*

ENGLISH

Eng. ST 17a and b. *Great English and American Writers.* This course will treat twelve of the most significant English and American authors, studying in detail one or two works of each figure. The objective will be twofold: first, by analyzing the literary significance of each writer, the course will seek to develop the critical judgment and taste of the student; second, by considering the attitude of each author toward fundamental human problems, studying the background of these attitudes, and comparing and evaluating them, the course will aim to help the student understand better some of the more important issues facing man today.

17a: Chaucer, Shakespeare, Donne, Milton, Swift, and Goldsmith.

Daily, except Saturday, at 7:50. Mr. Carter

17b: Emerson, Melville, Tennyson, Hardy, Shaw, and Hemingway.

Daily, except Saturday, at 9:15. Mr. Anderson

This course is not open to students who have taken English 15.

Eng. ST 13a. *Shakespeare.* This course will include ten plays of Shakespeare: *Romeo and Juliet, As You Like It, Merchant of Venice, Henry IV, Part I, Julius Caesar, Hamlet, Othello, Lear, Macbeth,* and *The Tempest.* In addition to tracing the development of Shakespeare as a dramatist, the course will consider carefully the fundamental human issues treated in these plays. Through the use of Spencer's *Shakespeare and the Nature of Man* as a background text, the course will emphasize the significance of Shakespeare in understanding ourselves and our contemporary society. The main emphasis in the course will be placed on the tragedies.

Daily, except Saturday, at 10:40. MR. ANDERSON

FRENCH

F Fr. ST 14. *Readings in French Literature.* The aim of French 14 is two-fold: the attainment of facile reading ability and the appreciation of at least ten works selected from various periods and chosen for their literary excellence and universal appeal. Double course. *Prerequisite:* French 12 or the equivalent, to be determined by a placement test.

Daily, except Saturday, at 9:15 and 10:40.

MR. MACQUEEN

NOTE: If more interest should be shown in second-year college French, it will be substituted for French 14.

GEOGRAPHY

Geog. ST 201b. *Political Geography—Problem Areas.* A study of major political problems of the world as related to geographic factors. Application of principles to international relations of selected regions.

Daily, except Saturday, at 7:50.

MR. VAN VALKENBURG

Geog. ST 275. *Regional Geography of the Mediterranean.* A geographical description and evaluation of the countries around the Mediterranean from the Strait of Gibraltar to the Bosporus. A study of Mediterranean life and culture.

Daily, except Saturday, at 12:05.

MR. VAN VALKENBURG

Geog. ST 20 (Educ. 20). *Geography in Education.* This course will discuss the purpose and function of Geography in school and its place in the Social Studies program. The problem of adjusting the curriculum in Geography to child growth and development in elementary and secondary schools will also be an important aspect of the course. The main core of the work will be concerned with detailed consideration of various methods of teaching at elementary and secondary levels. Exact lessons will be described and, if possible, demonstrated. Textbooks, background books, maps, atlases, films, photographs, specimens, and statistics, as well as outdoor study, will be given prominence. A great deal of recent unpublished research work in the teaching of geography will be discussed and new methods suggested.

Daily, except Saturday, at 10:40. MR. SCARFE

Geog. ST 281. *Agricultural Geography of Great Britain.* The historical development of the agricultural pattern in Great Britain will be related to the geographical background. The agricultural regions of Britain will be described in detail and the agricultural practices explained in light of the geographical factors. Detailed land-use maps will be employed as well as the county reports. The future of British agriculture will receive considerable attention.

Daily, except Saturday, at 9:15. MR. SCARFE

Geog. ST 191. *Cartography.* A discussion of various graphic methods and their application to geographic data. Since emphasis will be placed upon the mastery of cartographic tools and instruments, this course should prove particularly helpful to those planning to enter government service or to do illustrative work.

Daily, except Saturday, at 1:30. MR. BURNHAM

GERMAN

F Ger. ST 13. *Third-Year German.* A rapid and intensive review of German grammar followed by the study of contemporary German prose. Practical use of the language stressed. The course takes into realistic account the present situation in Germany and our country's extensive interests there. This course completes the language requirement in German. Double course. *Prerequisite:* two years of college German or equivalent.

Daily, except Saturday, at 9:15 and 10:40. Mr. Arndt

NOTE: If more interest should be shown in beginning German, or Second-Year German, one of those courses will be substituted for German 13.

HISTORY

Hist. ST 206b (Educ. 206b). *Teaching History and the Social Studies in Secondary Schools.* A study of objectives, methods, and materials in the teaching of history, economics, and problems in American democracy in their relation to citizenship development at the secondary school level. Among some of the topics to be considered are: the social studies teacher in the community, the planning of a social studies course with special attention to the changing emphases in current social studies programs, the survey of ways for improving economic education in the social studies, the selection and use of history and other social studies books, the construction and use of resource units, problems involved in the teaching of controversial issues, the rôle of current events and field trips. Actual problems from members of the class and from the instructor's own secondary school experience will form the basis of much of the study and discussion.

Daily, except Saturday, at 10:40. Mr. Abbott

Hist. ST 232a. *Constitutional History of the United States.* Major emphasis will be placed on the historical development of our political institutions and our basic law.

Daily, except Saturday, at 9:15. MR. CAMPBELL

Hist. ST 235. *United States in the 20th Century.* A study of the chief influences in American Civilization since 1900, with special attention to the emergence of current social and economic problems.

Daily, except Saturday, at 10:40. MR. CAMPBELL

Hist. ST 282. *History of the Soviet System.* Following upon an introductory survey of the intellectual and institutional origins of the Russian Revolution, major emphasis will be on the process of consolidation and transformation of the Soviet system after its establishment in 1917. The last part of the course will deal with the developments since 1941, with special reference to the sovietization of Eastern Europe and China. The problem of the relationship between Soviet theory and its practice will be a main theme throughout the course.

Daily, except Saturday, at 12:05. MR. RAEFF

PSYCHOLOGY

F Psych. ST 11. *General Psychology.* An introduction to the principles of human behavior. A double course. Lectures and class discussion.

Daily, except Saturday, at 9:15 and 10:40.

TO BE ANNOUNCED

SOCIOLOGY

F Soc. ST 12b. *Introduction to Cultural Anthropology.* The evolution and development of man and his culture: basic concepts; the races of man and their distribution; process of adaptation and adjustment through culture; primitive, historic, and modern culture complexes compared; divergence, transmission, and function of culture; origin and growth of civilizations; contemporary pre-literate peoples; relationship of anthropology to the other social sciences; the perspective of anthropology as a background for teaching the social studies in the schools.

Daily, except Saturday, at 7:50. MR. KILLIAN

Soc. ST 21a. *The Family and Society.* The emergence of marriage and family life from kinship and tribal organizations. The function and organization of the family in ancient civilizations. The family in our Western cultural heritage. The family and the rise of urban centers as influenced by mobility, secularism, status and rôle, individualism. The family and community organization. The welfare agencies and family reintegration. The family in relation to the school and to education. The function of the family in child-rearing and training.

Daily, except Saturday, at 10:40. MR. KILLIAN

SPANISH

F Span. ST 12. *Intermediate Spanish.* Review of grammar, exercises in composition and pronunciation, intensive and extensive reading of texts dealing with Spain and Spanish America. Double course. *Prerequisite:* Spanish 11 or the equivalent to be determined by a placement test.

Daily, except Saturday, at 9:15 and 10:40.

MR. RAMSEY

DEGREES AND CREDITS

All courses offered are accepted at Clark for credit toward the degrees of Bachelor of Arts and Bachelor of Business Administration. Business statistics is a required course in the latter field. Properly selected courses in the Summer Term also count toward the degrees of Master of Arts, Master of Arts in Education, and Doctor of Philosophy, when approved in advance by a student's major department.

Each subject successfully pursued for six weeks yields one-half course (three semester hours) credit except that double courses, which meet two and one-half hours a day, yield one course (six semester hours) credit. One double course constitutes a full program.

TUITION AND LIVING COSTS

The tuition for the normal program of two courses (or for one double course) is $90.00; for one course the charge is $45.00. A student carrying a full program may audit a third course without additional cost. In addition to tuition, there is a matriculation fee of $5.00 for students entering the University for the first time and a laboratory fee of $5.00 for each course in Biology. Tuition is payable at the Bursar's office immediately following registration.

Dormitory facilities are somewhat limited and, therefore, reservations should be made promptly by those desiring to live in the dormitories. Rooms in private homes near the University are also available. Rooms in the dormitories will cost $5.00 per week. A deposit of $10.00 is required in advance to hold a room.

Breakfast and lunch may be secured at the Student Union.

RESEARCH ON THESIS

Graduate students formally registered in the summer term may, with the approval of their major department, enroll in thesis courses under the direction of regular members of the staff other than those listed in the present bulletin.

VETERANS

Veterans attending the 1952 Summer School should either present their supplemental Certificates of Eligibility to the General Office not later than Friday of the first full week of the term or pay their tuition. All tuition paid will be refunded shortly after the Certificate of Eligibility is at hand at the General Office.

To the Director of the Clark University Summer School:

I wish to enroll as a student in the Summer School for 1952.

Name ______________________________ Date ____________

Present Address ______________________________

Permanent Address ______________________________

____

Occupation ____________________ Academic Degrees ________

Are you a candidate for an Academic Degree? ____________

If so where? ______________________________

If Veteran, will you be enrolled under the G. I. Bill? ________

Do you wish a room in dormitory? ______ If so, please enclose deposit.

Courses you tentatively expect to elect: ________________

FOR FURTHER INFORMATION ADDRESS

DEAN HOMER P. LITTLE, Director of the Summer School

Worcester 3, Massachusetts

CLARK UNIVERSITY BULLETIN

NUMBER 206 CATALOG FEBRUARY 1952

WORCESTER, MASSACHUSETTS

Order of Exercises

Processional

Pomp and Circumstance *Edward Elgar*

Invocation REVEREND RICHARD GREELEY PRESTON
All Saints Church
Worcester, Massachusetts

Announcements by the President

Commencement Address HOWARD MUMFORD JONES
Professor of English
Harvard University

Conferring of Degrees

Benediction REVEREND RICHARD GREELEY PRESTON

Recessional

Marche Pontificale *F. de la Tombelle*

The audience will kindly remain
standing during the recessional

Candidates for the Degree of Bachelor of Business Administration

Albert John Arsenian
Richard Marsh Austin
Hildreth Caldwell Bailey
Arnold Renaldo Carlson, Jr
William Clark Carmody
Frank Anthony Carofanello
Christopher John Matthew Chin
Donald Howard Clegg
Philip Joseph Collins
Roger Marcroft Corey
Raymond Roger Cournoyer
Chester Joseph Davidson
Groves Bradford Davis
Sarkis DerBedrosian
Arthur George Dukakis
Stephen Boris Fesuk
Gerald Saul Fisher
Albert Abraham Gammal, Jr
John Francis Halloran
Robert Atherton Howatt
Barbara Fontaine Ingebretsen
Harry Ottway Ireland
Marvin Allen Jamron
Donald Algerd Kamandulis
Paul Karagheusian
Charles Karamoutopoulos
Sidney Klein
Hugh Harold Lawson
Gerald Golden Marcus
John Courtney Mee
Albert Burke O'Donnell, Jr
Pehr Albert Pearson
George Clinton Putnam
Howard Miller Sachs
Alexander John Saitas
Charles Schneider
Ivan Ellis Seder
Harold Dwight Smith, Jr
Stephen Adams Smith
Robert Malcolm Steinberg
Kenneth Harold Steingold
David Kent Stratton
Joseph Paul Vuona
Marcia Paul Wolfson

Candidates for the Degree of Bachelor of Business Administration with Honor

William Francis Michael Glennon *with Honor in General Course*

Edward Martin Ingebretsen *with Honor in General Course and with Honors in Business Administration*

Robert Joseph McAulay *with Honor in General Course*

George Ernest Mrosek *with Honors in Business Administration*

Robert Alden Ostergaard *with Honors in Business Administration*

David Wheeler *with Honor in General Course and with Honors in Business Administration*

Candidates for the Degree of Bachelor of Arts

Jerrold Leonard Ackerman
Vernon Ahmadjian
John Christo Allabashi
Barbara Marianne Allstrom
Elliot Baker
Howard Bennett Benjamin
Peter Alfred Benson
Evelyn Mae Bergstrom
Frederick Allen Bliss
Samuel William Braverman
Marvin Sidney Brooks
Richard Austin Cain
Margaret Jean Carey
Kenneth Gustaf Carlon
George Edward Cormier
George Alfred Coupe
George Victor Delle
Herbert Drucker
Paul Vincent Durkin
Frederick Aaron Eisenberg
Lawrence Fahey
Joann Marie Foley
Raymond Wellington Forgit
Joyce Jacqueline Freitag
Eric Martin Friedmann
Walter Irving Gay
Robert Henry Gendreau
Louis Domenic Giannini
Paul Alan Goodale
Harold Burnham Gordon
Patricia Burritt Gray
Robert Wilson Greenlaw, Jr
Richard Lyman Gustafson
Virginia May Hegvig
Nahida Rafiq Hilmi
Yale Albert Hirshberg
Corlyn Barnes Hokans
Leonard Ray Hokanson
James Vernon Holton
Mary Elizabeth Hutchinson
Harold Charles Jigarjian
Arlene Fouracre Johnson
Arne Jacob Johnson
Aram Robert Kaloosdian
Robert John Kasabian
Evelyn Ann Katz
Ruth Marion Katz
Geraldine Mary Kelleher
Raleigh Burton Kerber
Robert Edward King
Martha Helen Koprowska
Bert Woodworth Lamb, II
Richard Alan LaPierre
Wilma Odell Layng
Paul Joseph Lynskey, Jr
Ann Kathleen MacCarthy
James Carson McCourt
Philip George Meissner
Joseph Meyer Mendelsohn
John Peter Meskunas
Edmund Boniface Mioduszewski
Carmen Ofelia Morales
Daniel Joseph Morrison
Marvin Meyer Neiditz
Violette Nicholas
Ralph Everett Noble
Richard Leonard Morton Novitch

Candidates for the Degree of Bachelor of Arts (Cont.)

Paul Vincent O'Brien, Jr
John Joseph O'Connell
Eleas William Patronas
Paul Marsh Patterson
Richard Waldo Perron
Edward Francis Petrell
Louise Dolores Ponty
Stanley Ragoza
Barbara Elizabeth Rose
Helaine Lois Rothblatt
James Grogan Ryan
William John Salem
Joseph Samara
Marguerite Ann Scannell
Daniel Anthony Scola
Harry Simonian
Robert Eugene Sisson
Arthur Joseph Smith
Robert Charles Somers
Harlan Emory Stearns
Richard Arthur Stolnacke
Verner Raymond Strandberg
William Henry Sturrup
Richard Patrick Sullivan
Helen Eugenia Watkins
Doanda Risley Wheeler
Priscilla Rosalie Jackson Wilson
Lester Zitowitz
Walter Peter Zmyslowski

Candidates for the Degree of Bachelor of Arts with Honor

Walter Roger Anderson *with Honor in General Course and with Honors in Economics and Sociology*

Amilcare Biancheria *with Honors in Chemistry*

Dorothy Ann Brennan *with Honor in General Course*

Robert Vincent Carey *with Honor in General Course*

Albert Merrill Cederlund *with Honors in Economics and Sociology*

Jewell Ann Emory *with Honors in English*

Margaret Weir Fairbank *with Honor in General Course and with Honors in Geography*

Barbara Ann Hill *with Honor in General Course and with Honors in American Civilization*

Helen Marie Hyytiainen *with Honor in General Course*

Mary Patricia Mitchell, *with Honor in General Course*

Robert Anthony Mongilio *with Honor in General Course*

Janet Ann Patterson *with Honor in General Course*

Margaret Augusta Smith *with Honor in General Course and with Honors in American Civilization*

Candidates for the Degree of Bachelor of Arts with High Honor

Rose Dagirmanjian *with High Honor in General Course*

George Kozak *with High Honor in General Course*

Norman James Richardson *with High Honor in General Course and with Honors in International Relations*

Claire Maureen Roche *with High Honor in General Course*

James Saul Wiener *with High Honor in General Course*

Candidates for the Degree of Master of Arts in Education

Charles Francis Daly
Lawrence Joseph Meehan
Waldo Everett Perry
Raymond Andrew Plotczyk
James Joseph Powers, Jr
Donald Sargent Rogers

Candidates for the Degree of Master of Arts

Biology

Norman Berry Marshall
Ina Louise McGregor
Eleanor Magdalene Stochaj
David Kenneth Wetherbee

Chemistry

Richard Clyde Courtney
Vincent Leo Hughes
Louis Allman Jones
John Hurley Madaus
Anthony Richard Manyak
Michael John Skrypa

Economics and Sociology

Nicholas Louis Onorato

Geography

Donald Lockhart Atwell
Mildred Settle Bradford
Jen Hu Chang
David Hamlin Hokans
John Thomas Hughes
Thein Maung
Walter Kenneth Morrison
Paul Porochniak
Peter T. Sardo
Nancy Mayo Waterman

History and International Relations

Carroll Marden Abbott
Philip Everett Charron, Jr
Henry Francis Joseph Fitzmaurice
Aristotle George Gazonas
John Theodore Harsch
Josephine Elaine Lorys
Paul Beach Mitchell
Noyuri Ohtsuka
James Little Tolley
Doreen Mary Yorkston
Manoog Solomon Young

Physics

Raymond A. Haddad

Psychology

Franklin Coit Butler, Jr
Sally Lucia Fisher
John Hurley Flavell
Carol Rita Gabrielson
Kayla Miriam Jaffe
Edith Freund Kaplan
John Burnham Miner
Thomas Basil Mulholland, Jr
Ashton Munroe Tenney

Candidates for the Degree of Doctor of Philosophy

Chemistry

Joseph Armand Martus
Cornelius Bernard Murphy

Economics and Sociology

Ardi Ardehali
Eric John Hanson

Geography

Siddik Abdul Rahman Atrushi
Mildred Marie Danklefsen
Francis Edward Elliott
George Lewis John Langdon
James Algan Shear
James Elmon Vance, Jr

History and International Relations

Francis Leland Jones

Psychology

Ricardo Bernardino Morant

Conferring of Honorary Degrees

Richard Greeley Preston	Presented by Robert Stanley Illingworth
Howard Mumford Jones	Presented by Dwight Erwin Lee
Solomon Lefschetz	Presented by Charles Theodore Bumer

The Sanford Memorial Scholarship

William Frederic Hausrath

Received from
Heffornan Press
3-21-52

CLARK UNIVERSITY BULLETIN
Number 206 February 1952

CATALOG

A record for the current academic year 1951-1952. Such announcements for the year 1952-1953 as can be made at the time of publication are included.

THE BULLETIN IS PUBLISHED IN JANUARY, FEBRUARY, MARCH, APRIL, MAY, OCTOBER AND NOVEMBER. ENTERED AS SECOND-CLASS MATTER DECEMBER 29, 1920, AT THE POST OFFICE AT WORCESTER, MASS, UNDER THE ACT OF AUGUST 24, 1912. ACCEPTANCE FOR MAILING AT SPECIAL RATE OF POSTAGE PROVIDED FOR IN SECTION 1103, ACT OF OCTOBER 3, 1917. AUTHORIZED JANUARY 24, 1921.

Table of Contents

CALENDAR 6

ALPHABETICAL LISTING FACULTY, ADMINISTRATION 9

BOARD OF TRUSTEES, ADMINISTRATION 11

FACULTY 12

ADMINISTRATIVE BOARDS AND COMMITTEES 23

THE UNIVERSITY 27

REQUESTS FOR INFORMATION 28

- Historical Note 29
- Worcester and the University 31
- Organization 32
- Buildings and Grounds 33
- Campus Plan 34
- The Library 36
- Admission 37
- The Academic Year 38
- Tuition and Other Expenses 38
- Fellowships, Scholarships and Student Aid 43
- Placement Bureau 48

GRADUATE AND UNDERGRADUATE PROGRAMS 49

THE GRADUATE SCHOOL 51

- Admission 51
- Scholarships, Fellowships and Student Aid 52
- The Degree of Master of Arts 53
- The Degree of Doctor of Philosophy 54

THE GRADUATE SCHOOL OF GEOGRAPHY 57

- Graduate Work 58
- The Field Camp 59
- Students' Fees 59

The Graduate Division of International Affairs 60
Admission 60
Programs 60

The Men's College—"Clark College" 61
Admission to the Freshman Class 61
Admission with Advanced Standing 63
Accelerated Programs and the Summer Term 64
Faculty Advisers 64
Freshman Induction Period 64
Registration 64
The Curriculum 65
Students Programs 66
Requirements for the Degree of Bachelor of Arts 67
Grading and Scholarship 70
Probation 70
Classification of Students 70
Comprehensive Examinations 70
General Honors 71
Departmental Honors 71
Scholarship Society 72
Absences 72
Extra-Curricular Activities and Student Life 73

The Women's College 75
Advisory Board for the Women's College 75
Admission and Scholarships 76
Induction Period 77
Dormitories 77
Student Activities 77
Physical Education and Athletics 78

The Division of Business Administration 79
Administrative Committee 79
Advisory Committee 79
The Program 80
Admission 81

Requirements for the Degree of Bachelor of Business Administration . . . 81
Honors Program . . . 83

DEPARTMENTS AND COURSES . . . 85
Interdepartmental Majors . . . 89
General Education . . . 91
Biology . . . 93
Business Administration . . . 99
Chemistry . . . 107
Classics . . . 112
Economics and Sociology . . . 115
Education . . . 126
English . . . 131
Fine Arts . . . 138
French . . . 143
Geography . . . 143
Geology . . . 151
German . . . 152
Health Education for Undergraduate Women . . . 156
History and International Relations: Government . . . 157
Mathematics . . . 166
Philosophy . . . 169
Physics . . . 171
Psychology . . . 174
Romance Languages: French and Spanish . . . 184
Russian . . . 189

THE SUMMER TERM . . . 191
Courses in 1951 . . . 192

THE DEGREE OF BACHELOR OF EDUCATION . . . 195

DEGREES CONFERRED IN 1951 . . . 196
Summary . . . 200

REGISTER OF STUDENTS . . . 201
Summary . . . 217

INDEX . . . 218

1952

JANUARY

S	M	T	W	T	F	S
....	....	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	....	....

FEBRUARY

....	....	....	....	....	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	....

MARCH

....	....	....	....	....	....	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	....	....	....	....	....

APRIL

....	....	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	....	....	....

MAY

....	....	....	....	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JUNE

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	....	....	....	....	....

JULY

S	M	T	W	T	F	S
....	....	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	....	....

AUGUST

....	....	....	....	....	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	....	....	....	....	....	....

SEPTEMBER

....	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	....	....	....	....

OCTOBER

....	....	....	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	....

NOVEMBER

....	....	....	....	....	....	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	....	....	....	....	....	....

DECEMBER

....	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	....	....	....

1953

JANUARY

S	M	T	W	T	F	S
....	....	....	....	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FEBRUARY

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
....	....	....	....	....	....	....

MARCH

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	....	....	....	....

APRIL

....	....	....	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	....	....

MAY

....	....	....	....	....	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	....	....	....	....	....	....

JUNE

....	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	....	....	....	....

JULY

S	M	T	W	T	F	S
....	....	....	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	....

AUGUST

....	....	....	....	....	....	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	....	....	....	....	....

SEPTEMBER

....	....	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	29
20	21	22	23	24	25	26
27	28	29	30	....	....	....

OCTOBER

....	....	....	....	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	....	....	....	....	....

DECEMBER

....	....	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	....	....

Calendar

The academic year begins on the Monday before the fourth Thursday in September and ends on Saturday before the thirty-eighth Monday. It includes two approximately equal semesters and two vacation periods: two weeks including Christmas Day and New Year's, and one week near the first of April.

The first semester ends on the Saturday before the twentieth Monday and the second semester begins on the twentieth Monday of the academic year.

1951-52

1951			
Sept.	24	Monday	Registration day. Beginning of academic year 1951-52.
Oct.	4	Thursday	Last day for payment of term bills.
Oct.	12	Friday	Columbus Day. A holiday.
Nov.	1	Thursday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June 1952.
Nov.	11	Sunday	Armistice Day.
Nov.	12	Monday	Not a holiday.
Nov.	17	Saturday	Mid-semester reports.
Nov.	21	Wednesday	Beginning of Thanksgiving recess at 5 p.m.
Nov.	26	Monday	End of Thanksgiving recess at 8 a.m.
Dec.	18	Tuesday	Beginning of Christmas recess at 5 p.m.
1952			
Jan.	2	Wednesday	End of Christmas recess at 8 a.m.
Jan.	15	Tuesday	Registration for second semester. Classes omitted.
Jan.	21	Monday	Beginning of semester examination period.
Feb.	2	Saturday	End of first semester.
Feb.	4	Monday	Beginning of second semester.
Feb.	9	Saturday	Last day for receiving applications for admission to candidacy for the degrees of Master of Arts and Master of Arts in Education in June 1952.
Feb.	14	Thursday	Last day for payment of term bills.
Feb.	22	Friday	Washington's Birthday. A holiday.
Mar.	22	Saturday	Mid-semester reports.
Apr.	5	Saturday	Beginning of spring recess at 1 p.m.
Apr.	14	Monday	End of spring recess at 8 a.m.
Apr.	19	Saturday	Patriot's Day. Not a holiday.
May	12	Monday	Ph.D. dissertations due at Recorder's office at 9 a.m.
May	19	Monday	A.M. theses due at Recorder's office at 9 a.m.
May	21	Wednesday	Classes omitted.
May	22	Thursday	Beginning of semester examination period.
May	30	Friday	Memorial Day. A holiday.
June	8	Sunday	Commencement Day.

1952 Summer School

June	23	Monday	Beginning of summer school. Registration day.
July	3	Thursday	Last day for payment of summer school tuition.
July	4	Friday	Fourth of July. A holiday.
Aug.	6	Wednesday	Beginning of summer school examinations.
Aug.	8	Friday	End of summer school.

1952-53

Sept.	22	Monday	Registration day. Beginning of academic year 1952-53.
Oct.	2	Thursday	Last day for payment of term bills.
Oct.	12	Sunday	Columbus Day.
Oct.	13	Monday	A holiday.
Nov.	1	Saturday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June 1953.
Nov.	11	Tuesday	Armistice Day. Not a holiday.
Nov.	15	Saturday	Mid-semester reports.
Nov.	26	Wednesday	Beginning of Thanksgiving recess at 5 p.m.
Dec.	1	Monday	End of Thanksgiving recess at 8 a.m.
Dec.	20	Saturday	Beginning of Christmas recess at 1 p.m.
1953			
Jan.	5	Monday	End of Christmas recess at 8 a.m.
Jan.	13	Tuesday	Registration for second semester. Classes omitted.
Jan.	19	Monday	Beginning of semester examination period.
Jan.	31	Saturday	End of first semester.
Feb.	2	Monday	Beginning of second semester.
Feb.	7	Saturday	Last day for receiving applications for admission to candidacy for the degrees of Master of Arts and Master of Arts in Education in June 1953.
Feb.	12	Thursday	Last day for payment of term bills.
Feb.	22	Sunday	Washington's Birthday.
Feb.	23	Monday	A holiday.
Mar.	21	Saturday	Mid-semester reports.
Apr.	4	Saturday	Beginning of spring recess at 1 p.m.
Apr.	13	Monday	End of spring recess at 8 a.m.
Apr.	19	Sunday	Patriot's Day.
Apr.	20	Monday	Not a holiday .
May	11	Monday	Ph.D. dissertations due at Recorder's office at 9 a.m.
May	18	Monday	A.M. theses due at Recorder's office at 9 a.m.
May	20	Wednesday	Classes omitted.
May	21	Thursday	Beginning of semester examination period.
May	30	Saturday	Memorial Day. A holiday.
June	7	Sunday	Commencement Day.
Sept.	21	Monday	Registration day. Beginning of academic year 1953-54.

Alphabetical List of Faculty and Administration

Allen, George E., A.B., Alumni Secretary
Alper, Thelma G., Ph.D., Associate Professor of Psychology
Anderson, Karl O. E., Ph.D., Associate Professor of English
Arndt, Karl J., Ph.D., Professor of German
Ballan, James E., A.B., Visiting Lecturer in Physics
Barlow, Claude W., Ph.D., Assistant Professor of Classics
Beck, Robert N., Ph.D., Instructor in Philosophy
Bell, John E., Ed.D., Associate Professor of Psychology
Blair, John H., M.A., Assistant Professor of Physiology
Borger, Henry C., Jr., M.A., Assistant Professor of Education
Bosland, Chelcie C., Ph.D., Visiting Lecturer in Economics
Breen, Philip H., LL.B., Lecturer in Business Law
Bullock, Jesse L., Ph.D., Professor of Chemistry
Bumer, Charles T., Ph.D., Professor of Mathematics
Burnham, Guy H., M.A., Instructor in Geography, Cartographer
Campbell, Robert F., Ph.D., Associate Professor of American History
Carter, William H., Jr., Ph.D., Assistant Professor of English
Cockrell, Frances, B.S. in Ed., Assistant Director of Physical Education for Women
Cohen, Morris H., Ph.D., Assistant Professor of Government
Colby, Lydia P., Recorder
Cowardin, Samuel P., III, M.A., Instructor in Fine Arts
Dowling, William F., Jr., Ph.D., Instructor in Government
Edwards, James S., A.M., Assistant Professor of German
Fox, Michael B., M.D., Medical Director for Men
Gerould, Albert C., B.S. in L.S., Librarian
Gifford, Raymond T., A.B., Treasurer
Gorenstein, Daniel, Ph.D., Assistant Professor of Mathematics
Granger, Rocheleau Z., Jr., M.A. in Ed., Director Physical Education for Men
Gunter, Roy C., Jr., Ph.D., Associate Professor of Physics
Gwinn, Gordon T., Ph.D., Assistant Professor of Psychology
Hastings, Edward H., M.A., Instructor in English
Hargest, George E., M.B.A., Assoc. Prof. of Economics and Bus. Admin.
Hayden, Sherman S., Ph.D., Associate Professor of International Relations
Higbee, Edward C., Ph.D., Associate Professor of Geography
Hubbard, Mary A., Bursar
Hughes, M. Hazel, M.Ed., Associate Dean for Women
Illingworth, Robert S., Ed.M., Professor of Speech and Drama
Jefferson, Howard B., Ph.D., President
Johnson, H. Earle, Mus.M., Assistant Professor of Music
Johnson, Victor B., Ed.D., Associate Dean for Men
Jones, Vernon, Ph.D., Professor of Educational Psychology
Jordan, H. Donaldson, Ph.D., Professor of English History
Kaliris, Constance, M.D., Medical Director for Women
Kegeles, Gerson, Ph.D., Associate Professor of Chemistry
Kelley, Eugene J., M.B.A., Assistant Prof. of Economics and Bus. Admin.
Killian, Frederick W., LL.B., Associate Professor of Sociology
King, J. Fannin, A.M., Assistant Professor of Romance Languages
Klein, George, Ph.D., Visiting Lecturer in Personality Dynamics

Kuh, Edwin, Visiting Lecturer in Economic Theory
Lambert, Roland C., B.S., Asst. Dir. of Physical Education for Men
Lane, David, M.A., Assistant Professor of Education
Lee, Dwight E., Ph.D., Professor of Modern European History
Letendre, Donald H., A.M. in Ed., Instructor in English
Little, Homer P., Ph.D., Dean of the College
Lougee, Richard J., Ph.D., Professor of Physiography
Lucas, Arthur F., Ph.D., Professor of Economics
Luce, Stanford L., Jr., M.A., Instructor in Romance Languages
MacQueen, Donald E., M.A., Instructor in Romance Languages
Martell, Arthur E., Ph.D., Professor of Chemistry
Martin, Richard B., Ph.D., Assistant Professor of Chemistry
Maxwell, James A., Ph.D., Professor of Economics
Melder, F. Eugene, Ph.D., Associate Professor of Economics
Meyer, Edith, Ph.D., Associate Professor Affiliate of Psychology
Miller, Allan B., A.B., Assistant Treasurer
Moore, Howard K., Ph.D., Assistant Professor of English
Murphy, Raymond E., Ph.D., Professor of Economic Geography
Nicol, Theodore, Ph.D., Associate Professor of Romance Languages
Nordstrom, Joseph A., M.S., Assistant Professor of Business Administration
Norton, Roger C., Ph.D., Instructor in German
Nunnemacher, Rudolph F., Ph.D., Associate Professor of Biology
Phillips, Leslie, Ph.D., Assoc. Prof. Affiliate of Clinical Psychology
Potter, David, Ph.D., Professor of Biology
Raeff, Marc, Ph.D., Instructor in Russian History and Language
Raisz, Erwin J., Ph.D., Visiting Lecturer in Geography
Ramsey, Walter A., M.A., Assistant Professor of Romance Languages
Reid, J. Richard, Ph.D., Associate Professor of Romance Languages
Roope, Percy M., Ph.D., Professor of Physics
Schaffer, Sheldon, M.A., Instructor in Economics
Sperry, Bessie, M.A., Visiting Lecturer in Psychological Diagnosis of Children
Stubbe, John S., Ph.D., Assistant Professor of Mathematics
Van Valkenburg, Samuel, Ph.D., Professor of Geography
Wapner, Seymour, Ph.D., Associate Professor of Psychology
Warman, Henry J., Ph.D., Associate Professor of Geography
Weinreb, Joseph, M.D., Professor Affiliate of Psychology
Werner, Heinz, Ph.D., Professor of Psychology
Wyatt, Frederick, Ph.D., Associate Professor Affiliate of Psychology
Zukowski, Walter H., A.M., Instructor in Economics and Business Administration

BOARD OF TRUSTEES

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

George H. Mirick (1920), President	Worcester, Mass.
Francis H. Dewey, Jr. (1934)	Worcester, Mass.
Robert H. Loomis (1936)	Boston, Mass.
Frank L. Adams (1938)	Worcester, Mass.
Howard M. Booth (1939)	Worcester, Mass.
Samuel H. Dolbear (1940)	New York, N. Y.
Carl E. Wahlstrom (1942), Vice-President	Worcester, Mass.
Raymond T. Gifford (1947), Treasurer	Worcester, Mass.
John Jeppson (1948)	Worcester, Mass.
Harry C. Coley (1948)	Worcester, Mass.
Roland A. Erickson (1951), Secretary	Worcester, Mass.

ELECTED TO REPRESENT THE ALUMNI

(Four Year Term)

Hiram N. Rasely (1948)	Belmont, Mass.
John C. O'Brien (1949)	Chevy Chase, Md.
Eugene L. Richmond (1950)	Worcester, Mass.
Henry C. Marble (1951)	Boston, Mass.

ADMINISTRATION

President of the University	Howard B. Jefferson
Dean of the College	Homer P. Little
Treasurer	Raymond T. Gifford 18 Chestnut St., Worcester, Mass.
Librarian	Albert C. Gerould
Associate Dean for Men	Victor B. Johnson
Associate Dean for Women	M. Hazel Hughes
Recorder	Lydia P. Colby
Assistant Treasurer	Allan B. Miller
Bursar	Mary A. Hubbard
Alumni Secretary	George E. Allen
Medical Director for Men	Michael B. Fox, M.D.
Medical Director for Women	Constance Kaliris, M.D.

Faculty

Listed in order of academic seniority within each rank

Howard Bonar Jefferson, Ph.D., LL.D., L.H.D. 160 Woodland St.
President and Professor of Philosophy since 1946.
A.B., Denison University, 1923; Ph.D., Yale University, 1929; LL.D., Denison University, 1948; L.H.D., Colgate University, 1951.

Homer Payson Little, Ph.D. 156 Woodland St.
Dean of the College and Professor of Geology since 1922.
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910.

EMERITI

Benjamin Shores Merigold, Ph.D., Sc.D. 21 Maywood St.
Professor of Chemistry, Emeritus

George Hubbard Blakeslee, Ph.D., L.H.D. 34 Monadnock Rd.
Professor of History and International Relations, Emeritus.

Philip Hudson Churchman, Ph.D. 20 Institute Rd.
Professor of Romance Languages, Emeritus.

Haven Darling Brackett, Ph.D. 138 Elm St.
Professor of Greek and Latin, Emeritus.

Leroy Allston Ames, A.M. Spencer, Mass.
Professor of English Literature, Emeritus.

William Homer Warren, Ph.D. Fayston, Vt.
Professor of Organic Chemistry, Emeritus.

Douglas Clay Ridgley, Ph.D. Bloomington, Ill.
Professor of Geography in Education, Emeritus.

Carey Eyster Melville, A.B. 33 Vincent Ave.
Professor of Mathematics, Emeritus.

Loring Holmes Dodd, Ph.D. 88 Sagamore Rd.
Professor of Rhetoric, Emeritus.

Samuel J. Brandenburg, Ph.D. 9 Willard Ave.
Professor of Economics and Sociology, Emeritus

PROFESSORS

JESSE LUNT BULLOCK, PH.D. 35 Downing St.

Professor of Chemistry and Director of the Chemical Laboratories.

A.B., Harvard University, 1914; A.M., 1928; Ph.D., 1932. Assistant Professor, 1926-32; Associate Professor, 1932-37; Professor since 1937 (February).

JAMES ACKLEY MAXWELL, PH.D. 15 Sunnyhill Dr.

Professor of Economics.

A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927. Instructor, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-37; Professor since 1937 (February).

SAMUEL VAN VALKENBURG, PH.D. 11 South Flagg St.

Professor of Geography. Director of the Graduate School of Geography.

Ph.D., University of Zürich, 1918. Special Lecturer in Geography, second semester, 1926-27; Assistant Professor, 1927-29; Associate Professor, 1932-37; Professor since 1937 (February).

ROBERT STANLEY ILLINGWORTH, A.M., ED.M. 209 Lovell St.

Professor of Speech and Drama.

A.B., Clark University, 1917; A.M., Lafayette College, 1926; Ed.M., Harvard University, 1933; B.D., Andover Theological School, 1945. Associate Professor of English, 1931-38; Professor since 1938 (February). Director of the Summer School, 1935-41.

*VERNON JONES, PH.D. 267 Salisbury St.

Professor of Educational Psychology.

A.B., and A.M., University of Virginia, 1920; A.M., Columbia University, 1924; Ph.D., 1926. Associate Professor, 1926-38; Professor since 1938 (February).

HENRY DONALDSON JORDAN, PH.D. 171 Woodland St.

Professor of English History.

A.B., Harvard University, 1918; A.M., 1922; Ph.D., 1925. Associate Professor, 1931-38; Professor since 1938 (February).

DWIGHT ERWIN LEE, PH.D. 3 Woodman Rd.

Professor of Modern European History.

A.B., University of Rochester, 1921; A.M., 1922; Ph.D., Harvard University, 1928 (February). Assistant Professor, 1927-30; Associate Professor, 1930-38; Professor since 1938 (February).

---

*Absent on leave, first semester, 1951-52.

*ARTHUR FLETCHER LUCAS, PH.D. 54 Morningside Rd.
Professor of Economics. Director of the Division of Business Administration.
A.B., Bates College, 1920; A.M., Princeton University, 1923; Ph.D., 1925. Assistant Professor, 1926-29; Associate Professor, 1929-38; Professor since 1938 (February).

DAVID POTTER, PH.D. 113 South St., Auburn, Mass.
Professor of Biology.
B.Sc., Massachusetts Agricultural College, 1916; M.Sc., 1923; Ph.D., Harvard University, 1932. Instructor, 1924-27; Assistant Professor, 1927-33; Associate Professor, 1933-38; Professor since 1938 (February).

PERCY MARTIN ROOPE, PH.D. 2 Lovell Drive
Professor of Physics.
A.B., Clark University, 1920; A.M., 1924; Ph.D., 1927. Instructor, 1921-27; Assistant Professor, 1927-31; Associate Professor, 1931-43; Professor since 1943.

RAYMOND EDWARD MURPHY, PH.D.
153 Boylston St., Shrewsbury, Mass.
Professor of Economic Geography since 1946.
B.S., Missouri School of Mines and Metallurgy, 1923; M.S., University of Wisconsin, 1926; Ph.D., 1930.

HEINZ WERNER, PH.D. 10 Atwater St.
Professor of Psychology since 1947.
G. Stanley Hall Professor of Genetic Psychology, April, 1949.
Ph.D., University of Vienna, 1915.

CHARLES THEODORE BUMER, PH.D. 121 Richmond Ave.
Professor of Mathematics since 1948.
B.Sc., Denison University, 1919; M.A., Harvard University, 1922; Ph.D., Ohio State University, 1931.

RICHARD JEWETT LOUGEE, PH.D.
Brigham Hill Rd., North Grafton, Mass.
Professor of Physiography.
B.S., Dartmouth College, 1927; A.M., University of Michigan, 1929; Ph.D., Columbia University, 1938. Associate Professor, 1947-1950 (January); Professor since 1950.

KARL J. ARNDT, PH.D. 5 Hazelwood Road
Professor of German since 1950.
A.M., Washington University, 1928; Ph.D., The Johns Hopkins University, 1933.

---

*Absent on leave, 1951-52.

Arthur Earl Martell, Ph.D. 17 Hapgood Way, Shrewsbury
Professor of Chemistry.
B.S., Worcester Polytechnic Institute, 1938; Ph.D., New York University, 1941. Assistant Professor, 1942-46; Associate Professor, 1946-51; Professor since 1951.

Joseph Weinreb, M.D. 21 Catherine St.
Professor (Affiliate) of Psychology since 1947.
B.A., Vanderbilt University, 1931; M.D., 1935.

ASSOCIATE PROFESSORS

Rudolf Fink Nunnemacher, Ph.D.
1 Manchaug Rd., Sutton, Mass.
Associate Professor of Biology.
B.S., Kenyon College, 1934; M.A., Harvard University, 1935; Ph.D., 1938. Assistant Professor, 1939-44; Associate Professor since 1944.

John Elderkin Bell, Ed.D. Putnam Rd., Holden, Mass.
Associate Professor of Psychology since 1944.
B.A., University of British Columbia, 1933; M.A., Columbia University, 1941; Ed.D., 1942.

Albert Chamberlain Gerould, B.S. in L.S.
12 Carleton Rd., Rochdale, Mass.
Librarian.
A.B., Dartmouth College, 1932; B.S. in Libr. Sci., Columbia University, 1935.

Frederick W. Killian, LL.B. 7 Woodbine St.
Associate Professor of Sociology since 1947.
A.B., New York University, 1934; LL.B., 1925.

George Edward Hargest, M.B.A. 150 Woodland St.
Associate Professor of Economics and Business Administration.
B.S., Temple University, 1933; M.Ed., 1937; M.B.A., Boston University, 1947. Assistant Professor, 1942-48; Associate Professor since 1948.

Theodore Nicol, Ph.D. 10 Circuit Ave.
Associate Professor of Romance Languages.
A.B., Clark University, 1926; A.M., Harvard University, 1928; Ph.D., 1933. Visiting Professor, 1946-48; Associate Professor since 1948.

J. RICHARD REID, PH.D. Stafford St., Rochdale, Mass.
Associate Professor of Romance Languages.
A.B., Swarthmore College, 1935; A.M., Harvard University, 1936; Ph.D., 1943. Assistant Professor, 1944-48; Associate Professor since 1948.

SEYMOUR WAPNER, PH.D. 20 Prouty Lane
Associate Professor of Psychology since 1948.
A.B., New York University, 1939; A.M., University of Michigan, 1940; Ph.D., 1943.

HENRY JOHN WARMAN, PH.D. 193 Lovell St.
Associate Professor of Geography.
B.S. in Ed., Bloomsburg, Pa., State Teachers' College, 1932; Ed.M., Temple University, 1938; Ph.D., Clark University, 1945. Assistant Professor, 1943-44, 1945-48; Associate Professor since 1948.

THELMA G. ALPER, PH.D. 97 Mt. Vernon St., Boston, Mass.
Associate Professor of Psychology since 1948.
A.B., Wellesley College, 1929; M.A., 1933; Ph.D., Radcliffe College, 1943.

KARL OSCAR EMANUEL ANDERSON, PH.D. 44 Richmond Ave.
Associate Professor of English.
A.B., Harvard University, 1927; A.M., 1928; Ph.D., 1942. Assistant Professor, 1945-49; Associate Professor since 1949.

ROY CHALMERS GUNTER, PH.D. Dodge, Mass.
Associate Professor of Physics.
B.S., Bowdoin College, 1938; A.M., Boston University, 1939; Ph.D., 1942. Instructor in Physics and Mathematics 1941 (February)-1943; Assistant Professor of Physics 1943-49; Associate Professor since 1949.

SHERMAN STRONG HAYDEN, PH.D. 68 Moore Ave.
Associate Professor of International Relations.
A.B., Harvard University, 1930; LL.B., 1933; M.A., Columbia University, 1936; Ph.D., 1942. Assistant Professor, 1946-49; Associate Professor since 1949.

FREDERICK EUGENE MELDER, PH.D. 173 Woodland St.
Associate Professor of Economics.
B.B.A., University of Washington, 1926; M.A., 1931; Ph.D., University of Wisconsin, 1936. Assistant Professor, 1937-42; Associate Professor, 1942-46, 1950-.

EDWARD COUNSELMAN HIGBEE, PH.D.
78 Highland St., Holden, Mass.
Associate Professor of Geography since 1950.
B.A., University of Wisconsin, 1932; M.A., 1938; Ph.D., Johns Hopkins University, 1949.

ROBERT FRANCIS CAMPBELL, PH.D. 3 Richmond Ave.
Associate Professor of American History.
A.B., Yale University, 1939; A.M., Columbia University, 1940; Ph.D., 1947. Assistant Professor, 1946-50, Associate Professor since 1950.

GERSON KEGELES, PH.D. 52 Zenith Drive
Associate Professor of Chemistry since 1951.
B.S., Yale University, 1937; Ph.D., 1940. Physical Chemist, National Institute of Health, 1947-51.

EDITH MEYER, PH.D. 52A Eliot St., Jamaica Plain, Mass.
Associate Professor (Affiliate) of Psychology since 1947.
Ph.D., University of Leipzig, 1933; Diplômes des Etudes Pédagogiques, University of Geneva, 1935.

FREDERICK WYATT, PH.D. 26 Harvard Rd., Belmont, Mass.
Associate Professor (Affiliate) of Psychology since 1947.
Ph.D., University of Vienna, 1936.

LESLIE PHILLIPS, PH.D. 47 Lear St.
Associate Professor (Affiliate) in Clinical Psychology.
M.A., University of Chicago, 1944; Ph.D., 1949. Instructor (Affiliate) 1946-50; Assistant Professor (Affiliate) 1950; Associate Professor (Affiliate) since 1950.

ASSISTANT PROFESSORS

M. HAZEL HUGHES, M.ED. 638 Pleasant St.
Associate Dean for Women. Director of Physical Education for Women.
B.Ed., Clark University, 1944; M.Ed., Boston University, 1949.

*J. FANNIN KING, A.M.
Assistant Professor of Romance Languages since 1946.
A.B., Pomona College, 1936; A.M., Harvard University, 1937.

---

*Absent on leave, 1951-52.

CLAUDE W. BARLOW, PH.D. 9 Hawthorne St.
Assistant Professor of Classics since 1947.
A.B., Amherst College, 1928; M.A., Indiana University, 1930; Ph.D., Yale University, 1935.

*MORRIS H. COHEN, PH.D.
Assistant Professor of Government since 1947.
A.B., University of Chicago, 1939; Ph.D., 1950.

JAMES S. EDWARDS, A.M. 25 Richards St.
Assistant Professor of German since 1947.
A.B., Brown University, 1936; A.M., 1938.

H. EARLE JOHNSON, MUS.M. 7 Hawthorne St.
Assistant Professor of Music.
Mus.B., Boston University, 1933; Mus. B., Yale University, 1934; Mus.M., 1935. Instructor, 1936-42; Assistant Professor since 1947.

VICTOR B. JOHNSON, ED.D. Dodge, Mass.
Assistant Professor of Education since 1947. Associate Dean for Men.
A.B., Upsala College, 1933; A.M., Teachers College, Columbia University, 1941; Ed.D., 1950.

JOHN HIRAM BLAIR, M.A. 17 Fiske St.
Assistant Professor of Physiology since 1948.
B.A., Wesleyan University, 1937; M.A., 1939.

DAVID LANE, M.A. 1 Dayton St.
Assistant Professor of Education since 1948.
A.B., University of Maryland, 1941; M.A., Columbia University, 1947.

WALTER ANDREW RAMSEY, M.A.
4 Colonial Drive, Cherry Valley, Mass.
Assistant Professor of Romance Languages since 1948.
B.A., University of Cincinnati, 1937; M.A., 1939.

ROCHELEAU Z. GRANGER, JR., M.A. IN ED.
113 Paxton St., Leicester, Mass.
Director of Physical Education for Men.
B.A., Clark University, 1938; M.A. in Ed., 1939.

---

*Absent on leave, 1951-52.

RICHARD BLAZO MARTIN, PH.D.
150 Pleasant St., Saundersville, Mass.
Assistant Professor of Chemistry.
A.B., Clark University, 1939; A.M., 1940; Ph.D., 1949. Instructor, 1946-49; Assistant Professor since 1949.

GORDON T. GWINN, PH.D. 54 Downing St.
Assistant Professor of Psychology since 1949.
B.A., University of Arizona, 1942; Ph.D., Yale University, 1948.

EUGENE JOHN KELLEY, M.B.A. 16 Oread St.
Assistant Professor of Economics and Business Administration.
B.S., University of Connecticut, 1944; M.Ed., Boston University, 1948; M.B.A., 1949.

JOHN SUNAPEE STUBBE, PH.D. 101 South Flagg St.
Assistant Professor of Mathematics since 1949.
B.S., University of New Hampshire, 1941; M.S., Brown University, 1942; Ph.D., University of Cincinnati, 1945.

HOWARD KIMBALL MOORE, PH.D. 1A Melville St.
Assistant Professor of English.
A.B., Boston University, 1939; A.M., 1940; Ph.D., 1950. Instructor, 1946-50, Assistant Professor since 1950.

JOSEPH A. NORDSTROM, M.S.
1010 Massachusetts Ave., Cambridge, Mass.
Assistant Professor of Business Administration since 1950.
B.S., Northeastern University, 1941; M.S., Massachusetts Institute of Technology, 1947.

HENRY CHARLES BORGER, JR., M.A. Union St., Holden, Mass.
Assistant Professor of Education since 1950.
A.B., Princeton University, 1933; M.A., Columbia University, 1938.

WILLIAM H. CARTER, JR., PH.D. 10 Silver St.
Assistant Professor of English.
A.B., Middlebury College, 1936; A.M., Harvard University, 1938; Ph.D., 1951. Instructor, 1949-51; Assistant Professor since 1951.

DANIEL GORENSTEIN, PH.D.
43 Westchester Rd., Newton, Mass.
Assistant Professor of Mathematics since 1951.
A.B., Harvard University, 1943; Ph.D., 1950.

INSTRUCTORS

Donald Henry Letendre, A.M. in Ed. 17 Oberlin St.
Instructor in English since 1946 (January).
A.B., Clark University, 1938; A.M. in Ed., 1939.

Guy Harvey Burnham, A.M. 19 Woodman Rd.
Instructor in Geography since 1946. Cartographer, Graduate School of Geography since 1922.
A.B., Clark University, 1916; A.M., 1922.

Donald E. MacQueen, M.A. 22 Richards St.
Instructor in Romance Languages since 1947.
B.A., Adrian College, 1937; M.A., University of Michigan, 1938.

Robert N. Beck, Ph.D. 24 Mayflower Rd., Leicester, Mass.
Instructor in Philosophy since 1948.
A.B., Clark University, 1947; M.A., Boston University, 1948; Ph.D., 1950.

Sheldon Schaffer, M.A. 4 Prouty Lane
Instructor in Economics since 1948.
B.A., University of Iowa, 1944; M.A., Yale University, 1947.

Marc Raeff, Ph.D. 989 Main St.
Instructor in Russian History and Language since 1949.
M.A., Harvard University, 1947; Ph.D., 1950.

Samuel P. Cowardin, III, A.M. Estabrook Hall
Instructor in Fine Arts since 1949.
A.B., Harvard University, 1943; A.M., 1948.

Edward Harold Hastings, A.M.
8 Evandale Ter., Dorchester, Mass.
Instructor in English since 1950.
A.B., Wesleyan University, 1946; A.M., Harvard University, 1947.

Roger C. Norton, Ph.D. 31 Clifton St.
Instructor in German since 1951.
A.B., University of Michigan, 1943; M.A., 1947; Ph.D., 1951.

William F. Dowling, Jr., Ph.D. 875 Main St.
Instructor in Government, 1951-52.
A.B., Harvard University, 1945; M.A., 1947, Ph.D., 1951.

Stanford L. Luce, Jr., M.A. 46 Minthorne St.
Instructor in Romance Languages, 1951-52.
B.A., Dartmouth College, 1947; M.A., Yale University, 1948.

WALTER H. ZUKOWSKI, A.M. 119 Morningside Rd.
Instructor in Economics and Business Administration, 1951-52.
B.B.A., Clark University, 1948; A.M., 1949.

LECTURERS

PHILIP H. BREEN, LL.B. 151 Barnard Rd.
Lecturer in Business Law since 1947 (January).
A.B., The College of the Holy Cross, 1920; LL.B., Boston University, 1923.

ERWIN RAISZ, PH.D. Cambridge, Mass.
Visiting Lecturer in Geography, 1951-52.
Diploma, Royal Polytechnicum, Budapest, 1914; M.A., 1924; Ph.D., Columbia University, 1929.

CHELCIE C. BOSLAND, PH.D. Providence, R. I.
Visiting Lecturer in Economics, first semester, 1951-52.
B.S., University of Minnesota, 1923; M.A., 1924, Ph.D., University of Michigan, 1929.

GEORGE KLEIN, PH.D.
Visiting Lecturer in Personality Dynamics, second semester, 1951-52.
A.B., College of the City of New York, 1938; A.M., Columbia University, 1939; Ph.D., 1942.

EDWIN KUH, A.B.
Visiting Lecturer in Economic Theory, second semester, 1951-52.
A.B., Williams College, 1949.

BESSIE SPERRY, M.A. Boston, Mass.
Visiting Lecturer in Psychological Diagnosis of Children, second semester, 1951-52.
B.A., Radcliffe College, 1936; M.A., Boston University, 1943.

JAMES E. BALLAN, A.B.
Visiting Lecturer in Physics, second semester, 1951-52.
A.B., Clark University, 1949.

ASSISTANTS IN PHYSICAL EDUCATION

ROLAND C. LAMBERT, B.S. 1285 Main St.
Assistant Director of Physical Education for Men.
B.S., Springfield College, 1937.

FRANCES COCKRELL, B.S. IN ED. 24 Kenilworth Rd.
Assistant Director of Physical Education for Women.
B.S. in Ed., Bouvé-Boston School, 1949.

TEACHING FELLOWS

KENNETH A. CHANDLER — Psychology
A.B., Clark University, 1948; A.M., 1949.

MARGERY R. JOHNSON — History and International Relations
A.B., Middlebury College, 1949; A.M., Clark University, 1950.

JOHN A. MCGUIRE — Economics and Sociology
B.A., Union College, 1936; A.M., Clark University, 1940.

JOHN C. METTLER — Economics and Sociology
A.B., Washburn College, 1938; M.A., Rutgers University, 1939.

RICARDO B. MORANT — Psychology
A.B., Harvard University, 1948; A.M., Clark Uninversity, 1950.

SAMUEL M. OSGOOD — History and International Relations
B.A., University of Nevada, 1949; A.M., Clark University, 1951.

APPOINTMENTS UNDER GRADUATE FUNDS

THE GEORGE S. BARTON FUND

MRS. BEATRICE NEARY	Economics and Sociology
LOUIS CARINI	Psychology

THE ALUMNI ASSOCIATION FUND

HAROLD ADAMS	History and International Relations

THE AUSTIN S. GARVER FUND

HENRY VONHOLT	Psychology
CHARLOTTE LENENTINE	History and International Relations
JEAN LAING	Geography
ALI ARDEHALI	Economics and Sociology

THE CHARLES H. THURBER FUND

FRANCIS CRAVEN	Chemistry

Administrative Boards and Committees

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the university and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Dwight E. Lee.

THE UNIVERSITY SENATE

Karl O. E. Anderson
Jesse L. Bullock
Charles T. Bumer
Robert S. Illingworth
Vernon Jones
Dwight E. Lee
Homer P. Little
James A. Maxwell
David Potter
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Howard B. Jefferson, *ex officio*

John E. Bell
Jesse L. Bullock
Sherman S. Hayden
Vernon Jones
H. Donaldson Jordan
Dwight E. Lee
Arthur F. Lucas
Arthur E. Martell
F. Eugene Melder
Raymond E. Murphy
David Potter
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner

James A. Maxwell, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the college, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the bachelor's degrees.

President Howard B. Jefferson, *ex officio*

Dean Homer P. Little, *ex officio*

H. Donaldson Jordan
Eugene J. Kelley
Arthur E. Martell
Rudolph F. Nunnemacher
J. Richard Reid

Howard K. Moore, *Secretary*

THE ACADEMIC COUNCIL

The Council, established by vote of the faculty, is appointed by the President of the University subject to regulations providing for the distribution of its membership among the various divisions and departments.

Its duties are to make recommendations regarding undergraduate educational policies, to check on the program of courses offered to undergraduates and to supervise honors work, senior surveys, and comprehensive examinations.

President Howard B. Jefferson, *ex officio*

Dean Homer P. Little, *ex officio*

Charles T. Bumer, *Chairman*

Claude W. Barlow, *Secretary*

Karl J. Arndt
John H. Blair
Robert F. Campbell
H. Earle Johnson
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner

ADMINISTRATIVE COMMITTEE FOR THE DIVISION OF BUSINESS ADMINISTRATION

President Howard B. Jefferson, *ex officio*

Eugene J. Kelly, *Acting Chairman*

John E. Bell
George E. Hargest
Homer P. Little
James A. Maxwell
Raymond E. Murphy

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected to advise the President regarding the personnel and the organization of departments.

Homer P. Little, *ex officio*

Karl O. E. Anderson
Jesse L. Bullock
Charles T. Bumer
Dwight E. Lee
J. Richard Reid
Samuel Van Valkenburg

THE LIBRARY COMMITTEE

Sherman S. Hayden, *Chairman*

Rudolph F. Nunnemacher
J. Richard Reid

ATWOOD HALL COMMITTEE

Albert C. Gerould, *Chairman*

James S. Edwards
H. Earle Johnson

THE STUDENT ACTIVITIES FUND COMMITTEE

Percy M. Roope, *Chairman*

Guy H. Burnham, *Treasurer*
George E. Hargest

STANDING COMMITTEES OF THE GRADUATE BOARD

The President of the university is, ex officio, a member of all committees of the Graduate Board.

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

Samuel Van Valkenburg, *Chairman*

Jesse L. Bullock
Vernon Jones
Dwight E. Lee
Heinz Werner

James A. Maxwell, *Secretary*

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

Karl J. Arndt, Professor of German
J. Richard Reid, Associate Professor of Romance Languages
A representative of the student's major department

STANDING COMMITTEES OF THE COLLEGE BOARD

The President of the university and the Dean of the college are, ex officio, members of all committees of the College Board.

THE COMMITTEE ON ADMISSIONS

Sherman S. Hayden
Robert S. Illingworth
Victor B. Johnson
David Potter

THE COMMITTEE ON ATHLETICS

David Potter, *Chairman*
James A. Maxwell
Rocheleau Z. Granger, Jr.
Henry J. Warman

COMMITTEE ON SCHOLARSHIPS

Homer P. Little, *Chairman*

Charles T. Bumer
David Potter

THE UNIVERSITY

REQUESTS FOR INFORMATION

HISTORICAL NOTE

WORCESTER AND THE UNIVERSITY

ORGANIZATION

BUILDINGS AND GROUNDS

THE LIBRARY

ADMISSION

THE ACADEMIC YEAR

TUITION AND OTHER EXPENSES

FELLOWSHIPS, SCHOLARSHIPS AND STUDENT AID

REQUESTS FOR INFORMATION

In this catalog you will find such information as is generally needed.

If you have a question concerning graduate work in any department write to

The Secretary of the Graduate Board
Clark University
Worcester 10, Mass.

If you have a special problem concerning admission to the college, write to

The Dean of the College
Clark University
Worcester 10, Mass.

Applications for admission to the college should be filed as early as possible. *Unduly late applications may fail to receive consideration.* Applications should, so far as possible, be filed at the end of the Junior year in preparatory school and at the latest by

December 1st for February admission
June 1st for Summer School admission
May 1st for September admission

Special announcements for the Division of Business Administration and the Graduate School of Geography are available on request.

Historical Note

The Charter of Clark University was granted by the General Court of Massachusetts in 1887. Within two years, in October, 1889, buildings had been constructed, a faculty assembled, and the first students enrolled.

In 1889 there existed in the United States, and especially in New England, reasonably ample provision for undergraduate liberal arts education. On the other hand, there was only one institution, The Johns Hopkins University, which placed particular emphasis upon original research and the training of specialists. From 1889 to 1902, Clark University devoted its attention exclusively to graduate study and research, thus performing a unique function in higher education in America.

The long devotion to education and the generosity of Jonas Gilman Clark made possible the establishment of the University which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester, where he had resided since shortly after the Civil War.

For president of the new institution, Mr. Clark and the trustees selected Granville Stanley Hall, noted psychologist of Johns Hopkins University. President Hall organized in Worcester a faculty of brilliant scholars who earned an enviable reputation for the University and decisively shaped its character. In 1900, when the Association of American Universities was founded, Clark University was one of the fourteen charter members.

As time passed, the obligations of the University were extended to include an undergraduate college. In the fall of 1902, in compliance with the will of Mr. Clark, the trustees opened Clark College to the first class of young men who sought, in three years' time, "preparation for citizenship and their work in life." The administration and the faculty of the College were distinct from those of the Graduate School.

From the beginning, Clark College departed from the prevailing type of American college of that day. Seriousness of purpose and hard work on the part of undergraduates were demanded. Admission requirements were flexible, but a high standard of performance was enforced. The degree of Bachelor of Arts was granted after three years of study. Student programs were heavier than was common elsewhere. The liberal ideas of Mr. Clark and the trustees were effectively developed in the educational program presided over by Carroll Davidson Wright, who had resigned as first United States Commissioner of Labor to serve as President of Clark College until his death in 1909. He was succeeded by Edmund Clark Sanford, Professor of Psychology in the Graduate School.

Upon the resignations of Presidents Hall and Sanford in 1920, Wallace Walter Atwood, Professor of Physiography at Harvard University, became president of both the graduate and undergraduate departments of the University. The election of President Atwood marked the addition of geography at the graduate level to the instructional obligations of the University. The Graduate School of Geography, with President Atwood at Director, was organized to function within the general framework of the graduate department.

Significant changes were effected also in the College. The normal period of residence required for the degree of Bachelor of Arts was increased from three years to four. Participation in intercollegiate activities was encouraged. The physical equipment of the University was increased. In 1941, a program leading to the degree of Bachelor of Business Administration was introduced under the direction of the Division of Business Administration. Also in 1941 the Women's College of Clark University was established by the trustees of the University, and since the fall of 1942, women have constituted an integral part of the undergraduate student body. The academic requirements are the same for women and men.

In 1946 President Atwood was succeeded by Howard Bonar Jefferson who, at the time of his selection, was Professor of Philosophy and Director of the School of Philosophy and Religion at Colgate University.

Worcester and the University

When plans for the new University were taking shape in Mr. Clark's mind, he enlisted the aid of a group of far-sighted and influential Worcester citizens from whom, later, the majority of his original Board of Trustees was chosen. In this was set a pattern for cooperation between the University and the community which has persisted throughout the history of the institution. The intellectual life of the city has been enriched by the contributions of the faculty and of distinguished guests whom the University has brought to Worcester. Members of the staff have served local institutions, both public and private, in many ways. The college has opened the door to higher education for hundreds to whom the opportunity would have been denied if they had been forced to seek it elsewere, while the graduate school has aided the more gifted to proceed to the highest levels of intellectual endeavor. Particularly noteworthy has been the service to teachers in the public school system.

On the other hand, the University has benefited by the support, both financial and intangible, which it has received from the citizens of Worcester. The interchange of services and ideas with the staffs of other Worcester institutions and the opportunity to use their libraries on a reciprocal basis have been invaluable. There is particularly close coöperation between the Department of Fine Arts and the Worcester Art Museum, between the Department of History and International Relations and the American Antiquarian Society, and between the Departments of Psychology and Education and the Worcester State Hospital. The Worcester Public Library and the University Library coöperate by avoiding duplication in the coverage of certain subjects and by a corresponding widening of the coverage in the fields assigned to each.

In short, the University is conscious that it is a part of the community and that, as such, it has both obligations and benefits. Its steadfast purpose is to strengthen the pattern of mutual interdependence and coöperation.

Organization

The University includes:

At the graduate level:

THE GRADUATE SCHOOL offering instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering instruction leading to graduate degrees in Geography.

THE GRADUATE DIVISION OF INTERNATIONAL AFFAIRS offering instruction leading to graduate degrees in International Affairs.

At the undergraduate level:

THE COLLEGE FOR MEN (Clark College) offering a general college program leading to the degree of Bachelor of Arts and a vocational program leading to the degree of Bachelor of Business Administration.

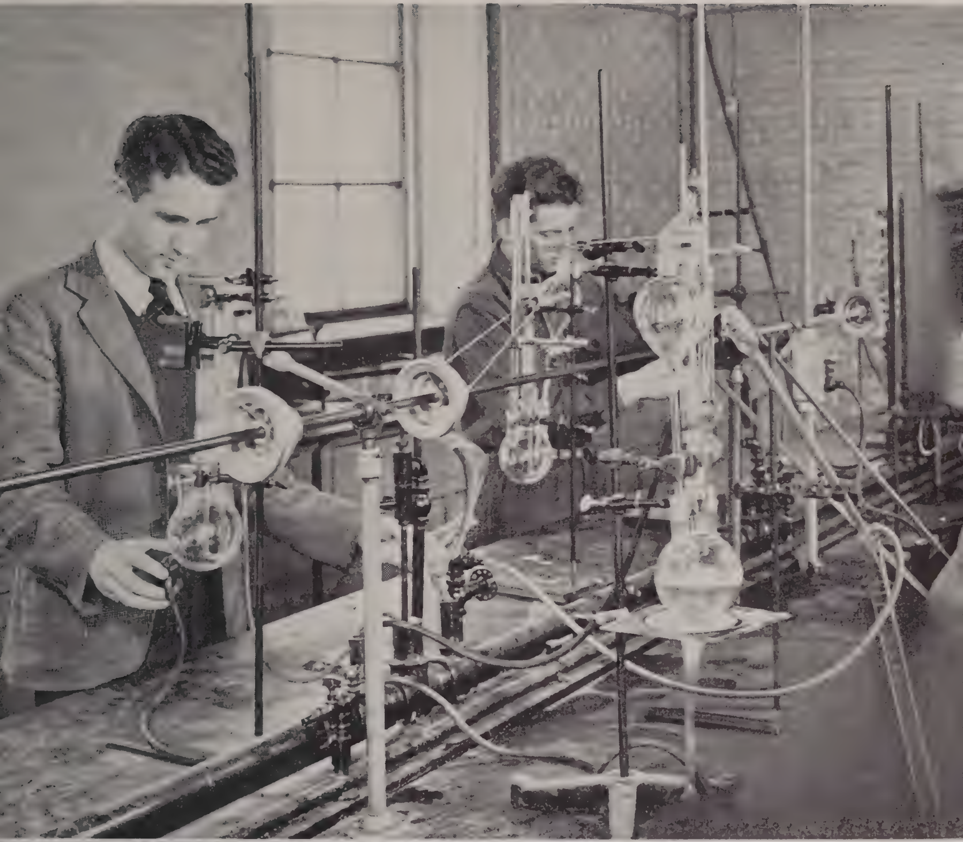
THE COLLEGE FOR WOMEN offering a general college program leading to the degree of Bachelor of Arts and a vocational program leading to the degree of Bachelor of Business Administration.

THE UNDERGRADUATE DIVISION OF BUSINESS ADMINISTRATION directs the program in Business Administration in the undergraduate colleges.

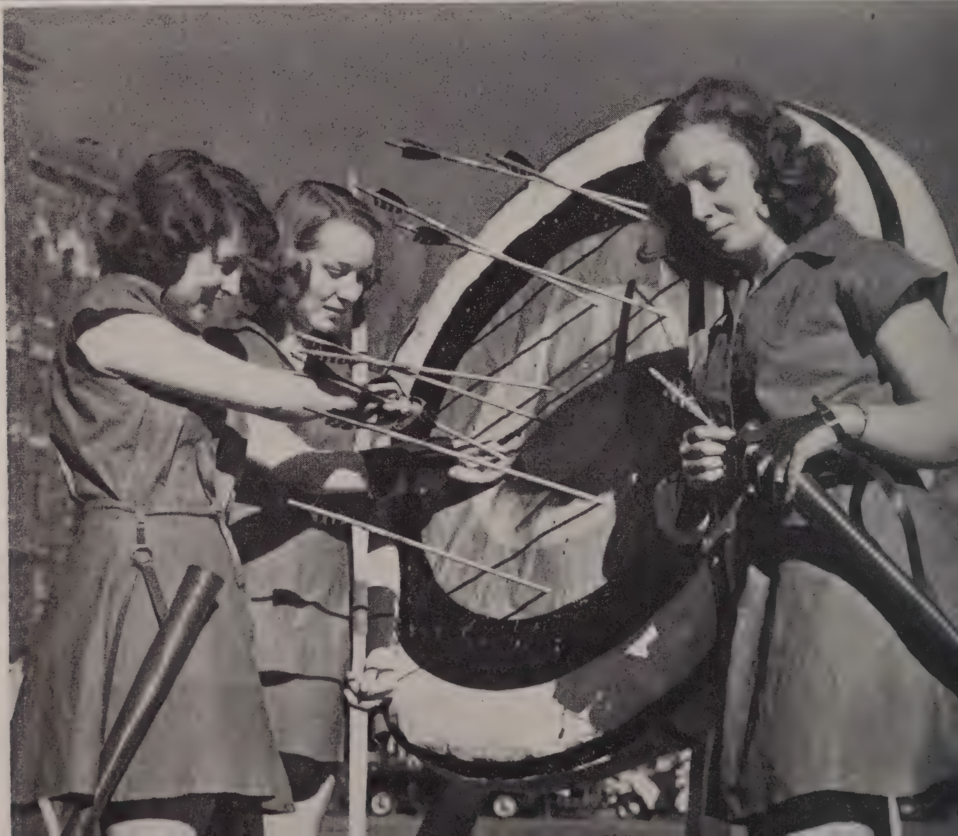
THE LIBRARY, with an endowment separate from the endowment of the teaching branches of the University.

THE CLARK UNIVERSITY PRESS, associated with the University for the publication of scientific books and journals.

Estabrook Hall



22
11



Buildings and Grounds

THE UNIVERSITY CAMPUS is situated on Main Street about a mile and a quarter from the business center of Worcester. The administrative and educational activities of the University are centered here. On adjacent property facing the campus on Woodland Street, are dormitories, the dining hall, and residences of the President and of the Dean of the College. There is a small athletic field opposite the campus on Maywood Street, providing tennis courts and a running track. A larger field, at the corner of Beaver Street and Park Avenue, is used for soccer, baseball, and other sports. The Hadwen Aboretum, the gift of Obadiah B. Hadwen, is a tract of about twenty acres at the intersection of Lovell and May Streets.

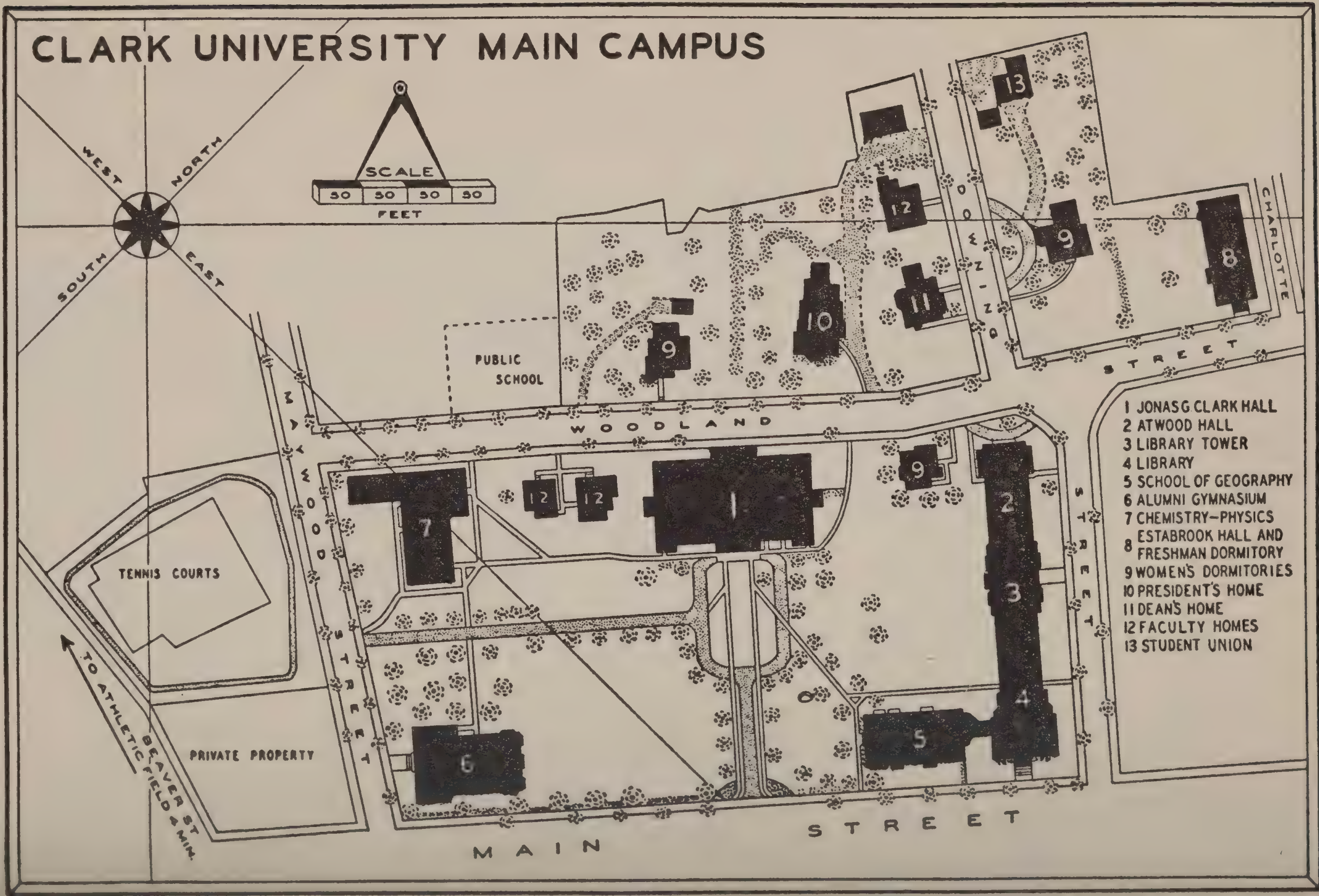
THE MAIN BUILDING (Jonas G. Clark Hall), completed in 1889, is a four-story, granite and brick structure containing about ninety rooms. It houses the general academic offices of the University and the offices and classrooms of most of the departments of instruction.

THE SCIENCE BUILDING, also completed in 1889, houses the Departments of Physics and Chemistry in a solidly built brick structure with interior partitions of brick.

THE LIBRARY BUILDING, completed in 1903, marked a departure from the style of the older buildings. Its design, which has been followed in all of the later University buildings, is a modern adaptation of the Gothic, using brick as the construction material.

The original building, at the corner of Main and Downing Streets, was enlarged in 1910 by the addition of a wing extending along Main Street. This wing is now used partly for library purposes and also houses the President's office and Graduate School of Geography. A second addition to provide for the growing book collections was added to the library in 1939. This is in the form of a tower which connects the Library Building with Atwood Hall.

ATWOOD HALL has its entrance on Woodland Street and extends along Downing Street to join the library tower. It provides an auditorium with a seating capacity of 800, which is used for weekly


CLARK UNIVERSITY MAIN CAMPUS
SCALE
50
50
50
50
FEET
NORTH
EAST
SOUTH
WEST
PUBLIC SCHOOL
TENNIS COURTS
PRIVATE PROPERTY
TO ATHLETIC FIELD 4 MIN.
BEAVER ST
MAYWOOD STREET
WOODLAND STREET
DOWNING STREET
CHARLOTTE
MAIN STREET
1
2
3
4
5
6
7
8
9
10
11
12
13
1 JONAS G. CLARK HALL
2 ATWOOD HALL
3 LIBRARY TOWER
4 LIBRARY
5 SCHOOL OF GEOGRAPHY
6 ALUMNI GYMNASIUM
7 CHEMISTRY—PHYSICS
8 ESTABROOK HALL AND FRESHMAN DORMITORY
9 WOMEN'S DORMITORIES
10 PRESIDENT'S HOME
11 DEAN'S HOME
12 FACULTY HOMES
13 STUDENT UNION

college assemblies, dramatic performances, the Fine Arts Course, and other University functions. It is also used for public gatherings.

THE ALUMNI GYMNASIUM, completed in 1938, is at the corner of Main and Maywood Streets. It provides a playing floor of ample size with seats for 800 spectators. The Gymnasium also contains a comfortable lounging room which provides a convenient and attractive meeting place for various University organizations.

ESTABROOK HALL, at the corner of Woodland and Charlotte Streets, provides dormitory accommodations for men and contains the University Dining Hall.

WOMEN'S DORMITORIES. There are at present three women's dormitories, Fanning, Blakeslee and Woodland, all located adjacent to the campus.

The Library

Albert C. Gerould, *Librarian*

Helen J. Elliot, *Cataloger*

Marion Henderson, *Reference Librarian*

R. Webb Noyes, *Classifier* Guy Burnham, *Map Librarian*

As is typical of any institution Clark University Library's collections are a reflection of the history of the institution which they serve. The early library was, as might be expected, primarily a scholars' collection, serving the needs of the men whom President Hall had assembled around him. In 1902 with the founding of Clark College an undergraduate library was established. Though these two collections were later merged to form the present University Library which now amounts to about 200,000 volumes, those classes representing subjects in which no graduate work is offered such as music and the fine arts, language and literature, philosophy and religion are still characteristically undergraduate in content.

The richest collections are of course in those fields in which graduate work is offered: geography, history and international relations, economics, psychology, chemistry, biology, and mathematics.

Particularly noteworthy is the geography collection, assembled under the energetic direction of the late President Atwood and enriched in 1928 by the bequest by the late Col. William Libbey of Princeton, N. J., of his library, one of the finest geography collections in private hands in its time.

The library owns a collection of some 50,000 maps.

The psychology collection built up under the guidance of President Hall and to which he willed his own library is one of the best in the country for the period of Dr. Hall's activity. It is particularly rich in early runs of foreign journals.

Under Mr. Clark's will, his books and paintings together with a fund for their maintenance and increase came to the University. The collections are housed in the library where a part of them are on display in a room set aside for the purpose.

Admission

Three classes of students are accepted in the University:

1. GRADUATE STUDENTS, candidates for the degrees of Master of Arts, Master of Arts in Education, and Doctor of Philosophy.

See announcement of the graduate schools.

2. UNDERGRADUATES, candidates for the degrees of Bachelor of Arts and Bachelor of Business Administration. Such candidates may be full time or part time students. Candidates for an undergraduate degree who for some reason do not carry more than three courses at a given time are classified as part time students.

See announcement of the undergraduate colleges.

Both freshmen and transfer students are accepted either at the beginning of the academic year, in September or at the beginning of the second semester, in February.

3. SPECIAL STUDENTS, persons not prospective candidates for a degree, who wish to take advantage of the opportunities for study provided by the University and who give satisfactory evidence of adequate preparation for the work which they wish to undertake.

All special students are under the supervision of the College Board.

AUDITORS may be admitted at the discretion of the administrative officers of the University. They are not enrolled as students in the University and do not pay the matriculation fee.

The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Requests for information and for application forms for the College should be addressed to THE DEAN OF THE COLLEGE, CLARK UNIVERSITY, 950 MAIN STREET, WORCESTER 10, MASSACHUSETTS.

Similar requests for the Graduate School should be addressed to THE SECRETARY OF THE GRADUATE BOARD, CLARK UNIVERSITY, WORCESTER 10, MASSACHUSETTS.

The Academic Year

The academic year is thirty-four weeks long, divided into two approximately equal semesters. This period is supplemented by a summer term slightly over six weeks in length.

The academic year begins on the Monday before the fourth Thursday in September and ends on the Sunday before the thirty-eighth Monday.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

Tuition and Other Expenses

In accordance with the express wish of the founder, the University has consistently aimed to keep its tuition and other fees as low as possible. The tuition has been raised from time to time in response to urgent need, but is still well below that charged by many similar institutions.

MATRICULATION FEE

A matriculation fee of $5.00 is required of all regularly enrolled students in Clark University.

Auditors are not required to pay the matriculation fee.

Official statements of record are issued by the Recorder for matriculated students only.

TUITION

The regular academic year. Tuition for undergraduates with programs of four or five courses is $500 for the academic year. Undergraduates and special or part time students who enroll for fewer than four or more than five courses pay $100 per course, $50 per half-course. (For definition of a course and half-course, see introductory statement under "Departments and Courses.")

Each undergraduate and special student carrying four or more courses pays also a yearly activities fee of $20 which is collected with the tuition.

Tuition for graduate students with normal programs is $500 per year. Graduate students who enroll for less than a full program are charged at the rate of $100 per course.

One half of the annual tuition, laboratory and activities fees is collected at the beginning of each semester.

If tuition is not paid within ten days after the beginning of a semester the enrollment of the student lapses. A student whose enrollment has thus lapsed may be re-enrolled, with the permission of the proper administrative officer, on payment of the overdue tuition with an additional fee of $2.

Summer term. Tuition in the summer term, with a normal program of two subjects is $90.00 for a six-week session. The tuition for a single subject is $45.00.

Tuition is due and payable at any time before 5 P.M. of the Thursday following the opening of the summer term.

REFUND OF TUITION

The following regulation was adopted by the trustees on March 28, 1931:

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

LABORATORY FEES AND DEPOSITS

Laboratory fees and deposits are payable at the time of registration.

For undergraduate laboratory courses in biology, geology, physics and psychology, and for Chemistry 11, the fee is $5 per semester for each course.

For each undergraduate laboratory course in chemistry, with the exception of Chemistry 11, the fee is $12 per semester.

There is a laboratory fee of $30 for each semester of Psychology 305, Advanced Experimental Psychology.

A breakage and supplies deposit is required in all undergraduate laboratory courses in chemistry according to the following schedule:

$10 for each course, excepting Chemistry 15.

$20 for Chemistry 15.

The Bursar returns any unused balance or collects any charge for breakage in excess of the deposit, after the course is completed.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

DIPLOMA FEES AND PUBLICATION FEES

For a bachelor's degree, the diploma fee, $5, is due at the beginning of the term in which the candidate expects to complete work in residence for the degree.

For a master's degree, the publication fee, $10, and the diploma fee, $10, are due when formal application for admission to candidacy for the degree is filed.

For the degree of Doctor of Philosophy, the publication fee, $15, and the diploma fee, $25, are due when formal application for admission to candidacy for the degree is filed.

THE HEALTH SERVICES AND INFIRMARY FEE

The Trustees have provided for the establishment of a University Infirmary which will be in operation during the periods when the University is in session, beginning September 1952.

The Infirmary will be conveniently located at 6 Downing Street, opposite the University Library. A nurse will be in attendance and the University physicians will be on call. Facilities will be provided for the treatment of emergencies and for minor medical services to all students while they are on the campus. In addition there will be provision for the temporary hospitalization of resident students in cases of more serious illness.

For the use of the Infirmary as outlined above and for annual physical examinations supplemented by other auxiliary health services a Health Services and Infirmary Fee will be collected with the tuition in the case of all undergraduates, beginning with the first semester of 1952-53, according to the following schedule:

Students living at home	$4 per semester	$8 per year
Resident students	$7.50 per semester	$15 per year

MISCELLANEOUS FEES

The induction fee, $5, is paid by all freshmen, both men and women, who enter the University in September. It is paid also by all women who enter in September by transfer from other colleges.

Graduate students who use the gymnasium pay a fee of $10 per year.

A class fee, $1 per year for each member of the class, is charged in Economics 11, General Education 14 and Sociology 11 to provide special materials and duplicate copies of much used books.

Graduate students in geography pay in addition to the regular tuition, a camp fee, a workroom fee and a classroom-materials fee. For details see the announcement of the Graduate School of Geography.

DINING HALL

Board at the Dining Hall is $190 per semester, payable as a whole in advance, or partly in advance with the balance in installments according to a fixed schedule.

Undergraduates who do not live in their own homes are required to board at the dining hall. This fact must be recognized and subscribed to by all who seek admission to either the Men's College or the Women's College.

DORMITORIES

Freshman men not living in their own homes or with near relatives are required to room in Estabrook Hall.

Women students who do not live in their own homes or with near relatives are required to room in one of the Women's Dormitories.

The charges for rooms in Estabrook Hall are as follows:

Suite of two rooms occupied by one student, $190 per year.

Suite of two rooms occupied by two students, $155 per year for each occupant.

Single room occupied by one student, $165 per year.

Single room occupied by two students, $130 per year for each occupant except on the mezzanine floor, where the charge is $135 for each occupant.

The charges for rooms in the Women's Dormitories are as follows:

Single room occupied by one student, $165 per year.

Double room, $135-$145 per year for each occupant.

Triple room, $110-$120 per year for each occupant.

Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit $25 before occupying a room. This deposit is returned, less a charge for lights and for any damages to the room or its furnishings, after the key to the room is surrendered to the Bursar.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25. Students who indicate a desire for a room together will be accommodated whenever possible. Rooms not required for freshmen may be rented by upper classmen or by graduate students. Such vacancies are, however, rare.

COLLEGE EXPENSES—SUMMARY

A student in the college who lives in the dormitory and boards at the dining hall will find that the necessary cost for a college year (September to June) is about $1,100 in addition to personal expenses.

This expense is distributed as follows:

Annual fees	
Tuition	$500.00
Room rent	110.00 to 190.00
Board	380.00
Activities fee	20.00
Laboratory fees (estimated)	10.00 to 50.00
Health services and infirmary fee	8.00 to 15.00
Books and supplies (estimated)	50.00
Total	$1,078.00 to $1,205.00

Non-recurring fees, collected in the first year only

Matriculation fee	$5.00
Induction period fee	5.00

Fellowships, Scholarships and Student Aid

Fellowships and scholarships are provided by the University from endowed funds and from other sources. Pecuniary aid is available also in the form of grants from a number of special funds. A limited amount of part-time employment is provided by the University. Frequently, as in the case of departmental assistants, this is of a kind which yields useful experience.

Many scholarships, especially at the college level, are provided by local sources. Any interested person should address inquiries to school officials, churches, fraternal organizations, chambers of commerce, etc.

Loans for educational purposes are similarly available.

GRADUATE FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

Graduate fellowships and scholarships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy at Clark University. Appointments are made on the basis of scholarly promise and seniority and on the recommendation of the departments. The number of appointments available in any department varies from year to year. Fellows and scholars are expected to coöperate with the staffs of the various departments, and may by mutual agreement undertake limited responsibilities. They are never called upon to perform services which would interfere with the completion of a full-time program of graduate study.

Stipends for graduate fellowships and scholarships are provided by the following funds:

The George Frisbie Hoar Fund, the gift of Andrew Carnegie in honor of the second president of the Board of Trustees.

The Austin S. Garver Fund, a bequest from Austin S. Garver, member of the Board of Trustees from 1908 to 1918.

The Charles H. Thurber Fund, provided by Charles H. Thurber, member of the Board of Trustees from 1913 to 1938 and President of the Board from 1919 to 1937.

The George S. Barton Fund, a bequest from the Honorable George S. Barton of Worcester. The income of this fund is for the benefit of native born citizens of the City of Worcester.

The Alumni Association Fund, provided by alumni who hold the degree of Doctor of Philosophy, is for the benefit of students who are studying for that degree.

Teaching fellowships are available in certain departments. These involve a specified amount of instruction with stipends which vary according to the amount of service agreed upon.

Assistantships are available in several departments. These positions involve a variety of services with stipends to correspond, and usually provide the student with experience which will be useful in his later professional work.

Inquiries concerning any of the above types of appointment should be addressed to the chairman of the department concerned.

STUDENT AID FOR GRADUATE STUDENTS

Student aid is available from the following funds, with the restrictions noted.

The John White Field Fund established by Mrs. Eliza W. Field to provide for the minor needs of a scholar or fellow.

The Eliza D. Dodge Fund. The income of this fund is granted to graduate students of limited means who are engaged in research work.

The Chester Bland Fund. The income of this fund is preferably used to provide aid to a promising student, either in residence or engaged in research elsewhere under the direction of the department of History and International Relations. It may also be used to defray the expense of visiting lecturers or of departmental research.

The Morton L. "Sonny" Lavine Foundation, a memorial to Lieutenant Lavine of the United States Army, World War II. The income is to be used for the promotion of research in the Department of History and International Relations.

LOANS FOR GRADUATE STUDENTS

Loans are available for graduate students from the following funds. These loans bear interest at four per cent per year.

ALUMNI LOAN FUNDS. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

THE MARY S. ROGERS SCHOLARSHIP AND LOAN FUND was established in 1926 for the benefit of students in the Graduate School.

THE SARAH M. THURBER LOAN FUND was established by the late Dr. Charles H. Thurber, former president of the Board of Trustees, as a memorial to his mother. This fund is administered by the president of the university.

UNDERGRADUATE SCHOLARSHIPS

Undergraduate scholarships are generally awarded on the basis of pecuniary need with due regard to character and ability. Such scholarships are provided from a variety of sources and vary in amount. Some of them are restricted to residents of a definite locality, or to those studying particular subjects.

Scholarships are awarded at the beginning of each semester. Ordinarily a scholarship for the first semester will be continued through the second semester if the recipient maintains a scholarship record which places him in the upper half of his class.

To be eligible for a scholarship award an entering student must have had a scholarship average which placed him in the upper third of his class for his course. To be eligible for a scholarship in college a student must have maintained an average in the upper half of his class for the preceding semester.

Applications for undergraduate scholarships should be filed at an early date on forms which may be secured from the college office.

Ellis-Hubley Competitive Scholarship. The sum of $600.00 has been set aside from the income of funds bequeathed in memory of Gordon A. Hubley, Clark 1910, and of Theodore T. and Mary G. Ellis, to establish a special competitive freshman scholarship for male residents of Worcester who have graduated from a Worcester secondary school. Candidates must be recommended to the Committee on Scholarships by the Principal or Headmaster of the school which the candidate is attending. The award will normally be continued for the four year course. One new scholarship is awarded each year.

The Jonas G. Clark Scholarships, established by the trustees, provide either full tuition or half tuition for undergraduate male and female students from outside of Worcester.

The Theodore T. and Mary G. Ellis Scholarships provide either full tuition or half tuition for male or female residents of Worcester who are students in "the collegiate department of Clark University."

The Sanford Memorial Scholarship Fund, established by alumni of the university in honor of Edmund C. Sanford, president of Clark College from 1909 to 1920, provides an annual scholarship amounting at present to approximately $200 for a male senior undergraduate.

The Livermore and Ambulance Scholarship was endowed by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the first World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is awarded annually on the basis of academic success, character, and usefulness to the college. This scholarship is for male undergraduate students who are residents of Worcester County.

The Henry A. Willis Fund provides scholarships for male students from Fitchburg, Massachusetts, and vicinity. In the absence of suitable candidates from this community grants may be made to others.

The Helen Brewster Randolph Memorial Scholarship Fund, established by the late Professor Charles B. Randolph, provides about $250 annually for scholarships for male college students, preferably those whose "major" is a foreign language.

The Gordon A. Hubley Scholarship Fund was bequeathed by Alice B. Hubley in memory of her son, a graduate of the college in the class of 1910. The income is for the assistance of male undergraduates who are residents of Worcester.

The Alice Friend Newton Memorial Scholarship provides full tuition for a student in the Women's College who is majoring in psychology.

The Ernest R. Whitman Memorial Alumni Fund, established by the Alumni Association in honor of the Director of Physical Education for Men at Clark College from 1904 until his death in 1948, provides financial aid to men or women students possessing high qualities of leadership.

The B'nai Brith Scholarship, provided by the Worcester Chapter, Order of B'nai Brith, is primarily but not exclusively for the aid of Jewish students.

The Probus Club of Worcester offers an annual scholarship of one hundred dollars.

The Harry G. Fager Scholarship of the Odin Club is awarded annually to some young man who possesses superior scholarship and personality, has limited means and is of Scandinavian blood. This scholarship, $200, is awarded every other year to a student at Clark University.

The Clark University Faculty Women's Club offers scholarships to undergraduate students, either men or women, who rank high in intellectual and personal qualities.

The Clark University Alumnae Association customarily offers two scholarships to students in the Women's College.

The Worcester Section, National Council of Jewish Women, awards a $200 scholarship each year to a Jewish girl from Worcester or Worcester county who is attending Clark University.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. Any sums received from this source will be added to the Alumni Loan Fund of the College or to any designated scholarship fund.

UNDERGRADUATE LOANS

Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 4 per cent per year. Interest received from loans is in all cases added to the fund from which the loan was made.

Loans from the funds described below are made to undergraduates by the Dean of the college in coöperation with the Alumni Committee on Loans.

THE ALUMNI LOAN FUND is a permanent revolving fund established by the trustees and the alumni. To this has been added a fund of about $500 contributed by L. Kelly Foster, C. B. L. Kelley, Isador Lubin, H. M. Smith, and others.

THE ESTABROOK LOAN FUND was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

THE HASKELL TALAMO LOAN FUND has been established by relatives and friends of the late Doctor Haskell Talamo, A.B., Clark University, 1916.

THE LOUIS N. WILSON FUND, established by the first librarian of Clark University, is a loan fund for male students in the college.

PLACEMENT BUREAU

The University Placement Bureau, with offices in Room 111 Jonas Clark Building, provides an employment information service for seniors, graduate students, and alumni. Students seeking employment after graduation are urged to register with the Bureau during the fall of their last year of residence. Credentials which the student places on file may be used indefinitely in supplying information to employers. The Bureau makes available up-to-date information about job openings and schedules interviews with representatives of employing firms.

Students who want part-time employment are also invited to make use of the Bureau's services.

GRADUATE AND UNDERGRADUATE PROGRAMS

THE GRADUATE SCHOOL

THE GRADUATE SCHOOL OF GEOGRAPHY

THE GRADUATE DIVISION OF INTERNATIONAL AFFAIRS

THE MEN'S COLLEGE (Clark College)

THE WOMEN'S COLLEGE

THE DIVISION OF BUSINESS ADMINISTRATION

The Graduate School

Admission to the Graduate School is open to properly qualified persons, both men and women. Instruction and opportunities for study leading to the degrees of Doctor of Philosophy and Master of Arts are offered in the following subjects:

- Chemistry
- Economics
- Geography
- History
- International Affairs
- Psychology

Work leading to the degree of Master of Arts is also offered in the following subjects:

- Biology
- Education (Master of Arts in Education)
- Physics
- Sociology

Courses of an advanced nature in other subjects may, with the consent of the Graduate Board, be included in the programs of graduate students.

ADMISSION TO THE GRADUATE SCHOOL

Admission is granted only by the Graduate Board on recommendation of a department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work. If he is encouraged by the department to make application, he will receive the application blanks and should submit them to the chairman of the department with an official transcript of undergraduate work, letters of recommendation from two persons who are competent to judge his qualifications, and a recent photograph (passport size preferred).

In addition, applicants for admission to the graduate school are strongly urged, and may be required, to submit a record of attainment in the Graduate Record Examination. This examination tests general knowledge in the field of study covered by the curriculum of the liberal arts college. It is useful as an indication of the general preparation of the student, and as a guide in planning his course of study.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence, never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at a specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for reinstatement.

Admission of seniors to graduate courses. Seniors in Clark College who rank in the upper third of their class may, in exceptional cases, be admitted to courses primarily for graduate students provided petitions for admission are approved by the College Board and the secretary of the Graduate Board.

SCHOLARSHIPS, FELLOWSHIPS, AND STUDENT AID

Scholarships and fellowships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy respectively. Application for a scholarship or fellowship should be made before March first to the chairman of the department in which the applicant expects to do his major work. Applications, after being endorsed by the departments, are acted upon by the Graduate Board.

According to an agreement of members of the Association of American Universities, the elections of fellows and scholars will be communicated on April first, but not before, to each member of the Association and to each successful candidate

Some fellowships are designated as research fellowships or teaching fellowships, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow.

Assistantships are available in certain departments. Appointments to these positions are usually made from the list of fellows. Application should be made to the chairman of the department.

Stipends for fellows and scholars, other student aid and educational loans for graduate students are provided by the income of special funds which are listed elsewhere under the heading, "Fellowships, Scholarships and Student Aid."

THE DEGREE OF MASTER OF ARTS

An academic year of full-time study in residence, or its strict equivalent in summer sessions and part-time study, is a minimum requirement for a master's degree. Residence study is broadly defined as graduate work done at Clark University under the immediate personal supervision of at least one member of the university faculty.

A reading knowledge of a foreign language, usually French or German, may be required of candidates for the degree of Master of Arts at the discretion of the major department.

Application for admission to candidacy for a master's degree should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for this degree. Applications will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Paid the diploma fee ($10) and publication fee ($10);
3. Obtained the written endorsement of his major department.

Candidacy for the degree of Master of Arts will, unless extended by action of the Graduate Board, hold good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. When the candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Each student must meet a minimum course requirement of five courses, or their equivalent in half courses. The program must be approved by the major department. One of the courses may be a research course devoted to the preparation of the thesis. The thesis will be written on a topic in the field of the student's special interest under the supervision of a member of his major department. A copy of the thesis, together with two copies of an abstract, both approved by the supervising instructor, must be deposited in the Recorder's office not later than three weeks before the date of the commencement at which the degree is to be conferred. A second copy together with an abstract must be delivered to the major department. The abstract must not exceed 600 words in length. The thesis and one copy of the abstract are deposited by the Recorder in the University Library. Each candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination by a committee of three or more, two of whom must be members of the Graduate Board.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Only such candidates as give evidence of general proficiency, power of investigation, and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

Foreign languages. A prospective candidate for the doctor's degree is advised to prepare himself early for the examinations in the reading of modern foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must pass the foreign language examinations before he will be permitted to take the preliminary examination for the degree of Doctor of Philosophy. These examinations are conducted by a committee composed of representatives of the modern language departments and a representative of the student's major department. The committee reports the results of the examination to the Recorder. Additional language requirements may be imposed by the student's major department.

Admission to candidacy. Applications for admission to candidacy must be filed not later than November first in any academic year, by students who hope to receive the degree at the end of that academic year. An application for admission to candidacy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work (or its equivalent in part-time work), one of which must be at Clark University;
2. Passed the required examinations in foreign languages;
3. Passed a preliminary examination in his chosen fields of study;
4. Paid the diploma fee ($25) and publication fee ($15);
5. Obtained the written endorsement of his major department.

Candidacy for the degree of Doctor of Philosophy holds good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Dissertation. A dissertation which is expected to make an original contribution to some special field of knowledge is required of each candidate.

The dissertation, with comments of the chief instructor and other readers, is laid before the examining committee at the final oral examination.

An abstract of the dissertation, approved by the instructor under whom it was written and not exceeding 1200 words in length, is also required.

Two copies of the dissertation and three copies of the abstract must be provided in a form which is prescribed and each copy must be signed by the chief instructor.

Four weeks before the date of the Commencement at which the degree is to be conferred, one completed copy of the dissertation and two copies of the abstract must be deposited in the office of the University Recorder. This copy of the dissertation and one copy of the abstract are deposited in the University Library where they remain permanently.

At the same time a second copy of the dissertation and a copy of the abstract must be delivered to the major department. These may be retained in the department or deposited in the library for loan purposes.

Final examination. The final examination is oral and lasts for at least two hours; additional written examinations may be given if the major department so directs. The candidate is expected to defend his dissertation and, at the discretion of the examining committee, may be questioned on the entire special field of his study. The oral examination is conducted by a committee of at least four members, including the chairman and one other member of the major department, a member of the Graduate Board under whom the candidate has done no work (unless such a member has participated in the preliminary examination of the candidate), and such other members of the Graduate Board as may be duly appointed. The president of the university is authorized to invite any person from within or without the university to be present and to assist in the examination.

The Graduate School of Geography

SAMUEL VAN VALKENBURG, PH.D., Director of the Graduate School of Geography and Professor of Geography.

RAYMOND E. MURPHY, PH.D., Professor of Economic Geography; Editor, *Economic Geography.*

RICHARD J. LOUGEE, PH.D., Professor of Physiography.

HENRY J. WARMAN, PH.D., Associate Professor of Geography; Secretary of the Graduate School of Geography.

EDWARD C. HIGBEE, PH.D., Associate Professor of Geography.

GUY H. BURNHAM, A.M., Cartographer and Instructor in Geography.

ERWIN RAISZ, PH.D., Visiting Lecturer on Cartographic Techniques.

SPECIAL LECTURERS, 1951-52

CHARLES C. COLBY, PH.D., Former Head, Department of Geography, University of Chicago.

STEPHEN B. JONES, PH.D., Head, Department of Geography, Yale University.

FRIDTJOV ISACHSEN, PH.D., Professor of Geography, University of Oslo, Norway.

FU HUNG, LITT.D., Professor of Geography, Teachers College, Taiwan, China.

KARL PELTZER, PH.D., Associate Professor of Geography, Foreign Area Studies, Yale University.

The Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The map collection, libraries, and special laboratories for cartography and interpretation of aerial photographs, provide unusual facilities for research work in residence. The Staff, composed of specialists in their various fields of geography, must spend part of their time in travel and field studies. A Staff member edits the magazine, *Economic Geography.* While in residence, the Staff members offer regular courses of instruction and direct advanced students in research work. Special lecturers, both American and foreign, supplement the regular Staff. Not all courses of instruction are offered each year; many are given in alternate years. All graduate students are encouraged to undertake independent field studies as part of their university work.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

(Please read also the preceding section of this catalog, under the heading "The Graduate School".)

Work is offered leading to the degrees of Master of Arts and Doctor of Philosophy in Geography. Candidates for the master's degree will pass written examinations in at least six of the following fields: physiography, climatology, soils and land utilization, biogeography, economic geography, human geography and cultural geography, regional geography, and political geography. The oral examination for the master's degree covers four fields approved by the Staff. The master's degree requires two years except for those whose preparation has been adequate enough in fundamentals to enable them to qualify in less time.

Candidates for the doctor's degree in geography will pass written examinations in the above fields, and a general oral examination covering six major fields approved by the staff. This oral examination will be scheduled after the language requirement is fulfilled. In general, a year of work beyond the master's degree should prepare a candidate for the general examination preliminary to his acceptance as a candidate for the doctor's degree and to his concentration work for his dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in biology, economics, history and international relations.

The master's thesis must be submitted to the major professor at least three weeks before it is to be deposited with the Registrar. Doctoral dissertations must be submitted at least four weeks before the Registrar receives the completed copies. The above is necessary since theses must rotate through and receive final approval of all Staff members. Dissertations must be circulated first and then defended.

THE FIELD CAMP

A distinctive feature of the Graduate School of Geography is the autumn field camp of three weeks' duration at the beginning of the fall term. All resident prospective candidates for graduate degrees in geography are expected to attend the field camp each autumn. The field program includes studies in physiography, land utilization, industrial geography and weather observations, with special training in mapping and other field techniques. Cars, scientific instruments and other equipment are provided. Suitable field clothing and blankets must be provided by the individual student. Following return to the campus, about ten days are allowed for completion of field reports. Formal course work begins on the second Monday after the close of the field camp.

Formal course work in geography ends about May 1st, leaving students free to read and to coordinate their work prior to the examination period.

STUDENTS' FEES

All geography students in residence must pay in addition to the general university fees, the camp fee, the workroom fee, and the classroom-materials fee.

The camp fee, determined on a cost basis, varies between $50 and $80, payable to the camp director on or before the first day of camp. For a student taking the field course only, the tuition fee is $25, in addition to the camp fee. The camp fee covers board and lodging, transportation, maps, drafting supplies and the use of meteorological instruments and other equipment for the three weeks' period.

The workroom fee, $5 a semester, is payable to the department November 1st and March 1st. It helps maintain the geography workroom and equipment used by graduate students—alcove desks, files of maps, card catalogue, drafting tables and instruments, and adding machines.

The classroom fee, $5 a semester, is payable November 1st and March 1st to the department. It is for mimeographing and for the maintenance, in part, of the classroom wall maps and other equipment, and for the expense of meteorological materials.

The Graduate Division of International Affairs

GEOGRAPHY, DIPLOMACY, ECONOMICS

ADMINISTRATIVE COMMITTEE

JAMES A. MAXWELL, *Professor of Economics.*

SAMUEL VAN VALKENBURG, *Director of the Graduate School of Geography.*

DWIGHT E. LEE, *Professor of Modern European History.*

The Graduate Division of International Affairs aims to meet a demand for graduate work which will be devoted entirely to the general field of international affairs and which will include work in geography, history and international relations, and economics. This division groups together appropriate courses and seminars in order to prepare graduate students for the government service of the United States, college and university professorships in international affairs, posts in corporations and banks doing foreign business, and research and administrative positions in the field of world affairs. The courses include offerings in political, regional and economic geography; foreign trade, commerce, and finance; international law; modern and diplomatic history; and the foreign policy and international relations of the United States.

ADMISSION

Qualified graduate students who are interested in International Affairs are admitted either in the Department of History and International Relations or in the Department of Economics and Sociology or in the Graduate School of Geography. Inquiries and applications may be addressed to any one of them.

PROGRAMS

Programs in International Affairs are adjusted to the special interests of the individual students. Programs are arranged in consultation with the staff and require the approval of the committee in charge of the division.

The Men's College

CLARK COLLEGE

The college offers a general program leading to the degree of Bachelor of Arts, and a vocational program leading to the degree of Bachelor of Business Administration.

ADMISSION TO THE FRESHMAN CLASS

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College, Clark University, Worcester 10, Massachusetts. Application for admission should preferably be made either at the end of the junior year or immediately at the end of the first semester of the senior year of secondary school. A deposit of $5.00 is required with the application. This is returned if the applicant is not admitted. No refund of deposit will be made if the applicant is admitted and then fails to register. If the applicant is admitted, this deposit is retained by the University and is credited as the matriculation fee.

An applicant for admission to the freshman class is required to furnish satisfactory character references. He must also furnish his records from all preparatory schools which he has attended.

Records of scholastic aptitude tests and of College Board examinations are of value and may be required.

The completion of a four-year high school course or its equivalent, including fifteen acceptable units of credit, is normally required for admission to the freshman class. The term "unit" is understood to mean approximately one-quarter of the pupil's normal program of work for the school year.

The fifteen acceptable units of credit which are required for admission as a candidate for the degree of Bachelor of Arts must include:

Required subjects, 7 units.

English, 3 units (4 years).

  - *Mathematics, 2 units (algebra and geometry).
  - †Foreign language, 2 units of a single language.

- Restricted electives, 5 or more units chosen from:
  - Foreign language, up to four units in addition to the required units. (The college does not accept less than two units in any foreign language.)
  - Social sciences, 2 or 3 units (history, government, civics, economics, etc.)
  - Natural sciences, 2 or 3 units (physics, chemistry, biology, etc.)
  - Mathematics, 1 or 2 units (in addition to required units).
- Free electives; not more than 3 units, at the discretion of the committee on admissions, in subjects recognized by the applicant's preparatory school in its regular program.

Quality requirements. To qualify for admission an applicant must present satisfactory references and a preparatory school record showing "certification" by the principal of the school in at least thirteen of the fifteen acceptable units required. A principal may also give blanket certification without consideration of specific subjects. In doing so he accepts complete responsibility for the student's success in college.

No applicant with less than thirteen acceptable units of certified credit or its equivalent will be accepted without examination unless his average grade places him in the highest quarter of the class with which he graduates from high school or he receives "blanket certification" from the principal of the school.

Certification is accepted from schools in New England on the basis of well established standards which prevail in that region.

A certificate from a school which lies outside New England will be interpreted to mean that the student is prepared to undertake college courses for which the certified subjects are prerequisite. A school will be judged in respect to continued certification privilege on the basis of the college records of the candidates in the certified subjects.

---

*Applicants expecting to specialize in "science" are advised to present at least 3 units of mathematics.

†Normally required.

Entrance Examinations. Applicants who cannot present the necessary number of certified units should arrange in consultation with the Dean of the college to take examinations which are given by the College Entrance Examination Board. The college will determine in each case what constitutes a satisfactory record in such examinations.

A bulletin of information concerning these examinations may be obtained without charge from the College Entrance Examination Board, P. O. Box 592, Princeton, N. J., or, for the far west, from P. O. Box 9896, Los Feliz Station, Los Angeles 27, Calif. Inquiries should be sent to the Board at least one month in advance of the dates of the examinations, which are held March 15, May 17, and Aug. 13, 1952.

ADMISSION WITH ADVANCED STANDING

A student who wishes to enter the college after attending another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended, and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally classified as a freshman, sophomore, junior, or senior and will be permitted to register for a program corresponding to this classification.

After a scholastically successful semester in residence he will be given a definite class rating and appropriate credit for college courses completed elsewhere will be entered on his record.

A graduate of the three year course of the Worcester Art Museum School may be admitted as a candidate for the bachelor's degree with the rank of *junior* in the college. To graduate from Clark, such a student must meet all the usual admission requirements and all the normal course requirements of the college.

The bachelor's degree will not be conferred upon a student until he has spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

ACCELERATED PROGRAMS AND THE SUMMER TERM

An "accelerated program" which made it possible for a student to meet the requirements for graduation within three calendar years of the date of his admission to the college was made possible by a twelve-week summer term which was provided from 1942 through 1949 and again in 1951. Changing conditions brought about the shortening of the summer term to six weeks in 1950 and it is expected that this will be the length of the term in 1952 and thereafter.

A student may shorten the period of residence required for a bachelor's degree to three and one-half calendar years by taking advantage of three six-week summer terms.

FACULTY ADVISERS

When a student is admitted to the college he is assigned to a member of the faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel.

FRESHMAN INDUCTION PERIOD

The freshman class of the men's college assembles for an induction period a few days before the beginning of the academic year in September. This period is usually spent at a camp in the vicinity of Worcester and is used to complete certain important preliminaries before the beginning of class work.

A fee of $5 is charged for the induction period.

REGISTRATION

Each student is required to register for a program of studies at or before the beginning of each semester. Due notice of registration periods is given. Failure to register before the end of the periods designated involves a charge of $1 for each day's delay up to a maximum of $5.

Changes in registration may be made with the approval of the students adviser within a reasonable time after the beginning of the semester.

Freshmen may register for programs of either five or six courses in the first semester. In subsequent semesters programs of six courses are restricted to students whose average grade in all courses for the preceding term has been C+ or better, except in the cases of seniors. A senior whose graduation depends upon the completion of a program of six courses may register for such a program if his average grade for the preceding term has been C– or better.

The designation of a *major subject* is required as part of registration at the beginning of a student's second year in college. This election when once recorded may be changed only with the approval of the Dean. Although the *major subject* is not officially recorded until the student's second year in college, he should plan his program from the beginning with his probable choice in mind.

THE CURRICULUM

The curriculum permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies includes a group of courses constituting a *major,* also courses in English, in foreign language, in fine arts or music, and in other courses chosen under regulations intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

For statements regarding courses which may be combined to form a *major,* the announcements of the different departments should be consulted. Interdepartmental majors are described on later pages of this catalog at the beginning of the section "Departments and Courses".

A regular student normally carries a program of five courses throughout the academic year, September to June, in addition to required work in physical training. In general it is expected that a course meeting three times weekly will require a minimum of two hours of preparation for each lecture or recitation. Laboratory periods are usually three hours in length.

A student carrying the regular program should, therefore, expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in physical training.

Regular attendance at a weekly assembly is required of all undergraduates not classified as part-time or special students.

Instruction is offered in four groups of subjects:

Group A (Science and Mathematics). Biology, botany, chemistry, experimental psychology, geology, mathematics, physics, and physiology.

Group B (Social Sciences). Economics, education, geography, government, history, international relations, philosophy, psychology, and sociology.

Group C (Language and Literature). Greek, Latin, English, French, German, Russian, Spanish, and an interdepartmental course in language and literature.

Group D Fine Arts.

STUDENT PROGRAMS

The Freshman Program. A first-year student must make up his program entirely from courses designated as "Open to Freshmen."

A candidate for the degree of Bachelor of Arts must include the following courses in his program for the freshman year:

1. English 11.
2. A course in foreign language.
3. A course in group A.
4. A course in group B.
5. An elective. (This course must be Mathematics 11 for students intending to major in group A, including pre-dental and pre-medical students.)

Candidates for the degree of Bachelor of Business Administration will follow the program outlined under the announcement of the Division of Business Administration.

Any first-year requirements which have not been completed must be included in the program of courses for the second year.

The Program for Undergraduates Other Than Freshmen. Undergraduates other than freshmen may enter any course listed under the heading "primarily for undergraduates" for which, in the judgment of the instructor in charge, they are prepared. Seniors and juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed under the heading, "for advanced undergraduates and graduate students." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only after a special vote of the College Board and the approval of the secretary of the Graduate Board.

Regular physical exercise is required of all students, with the exception of veterans, for the general promotion of their health and mental efficiency. Physical training is scheduled at times which avoid conflict with recitation hours. *Students are usually excused from this requirement only on the recommendation of the medical director.*

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

All college regulations involving a quantitative statement of credit are expressed in terms of courses.

A course as a unit of credit normally implies three or four class meetings or laboratory exercises per week throughout two semesters and constitutes one-fifth of a student's normal program. Where departments offer fractional courses, these will be combined in reckoning a student's total credit in courses. Students admitted to classes primarily for graduate students receive credit of one-half course per semester irrespective of the number of class meetings.

A student in good standing in the college will be recommended for the degree of Bachelor of Arts whenever he completes all of the following requirements, unless in the judgment of the College Board there is cause for withholding this recommendation:

1. *Residence.* Not less than three academic years of college study in residence. At least one full year and usually the last year before the degree is conferred must be spent at Clark University. A year in residence signifies the satisfactory completion of five year courses at Clark University.
2. *Course requirements.* Twenty courses in addition to required physical training, *except in the case of veterans who are eligible for benefits under Public Laws 16 or 346 as amended by Public*

Law 268. Such veterans will normally be graduated on the completion of nineteen courses, credit for the twentieth course being granted for military service and miscellaneous training in service.

A satisfactory scholarship record must be maintained throughout the entire program.

3. *Physical training.* Three years of physical training, two hours per week. Veterans who have completed the basic training for any branch of military service and those who served in the Merchant Marine are excused from the requirement in physical training.
4. *Assembly.* Attendance at a weekly assembly is required.

   Requirements 3 and 4 are in addition to the course requirements as stated above.
5. A *major.*

   A *departmental major* consists of seven courses designated by the major department for this purpose. Four or five of these courses must lie in the major subject; the remaining courses must lie in fields of study closely related to the major subject.

   For the completion of the major requirement at least eleven of the fourteen semester grades involved must be C or higher.

   An *interdepartmental major* includes eight or more courses which are chosen with regard to related content and purpose in fields which cross departmental boundaries. Three such programs are now available: International Relations; English History and Literature; American Civilization. These will be found fully outlined under the heading "Interdepartmental Majors" just before the alphabetical list of "Departments and Courses".

   Mathematics is a requirement in the freshman year for a student who intends to major in group A, including pre-dental and pre-medical students. This course may, with the approval of the major department, be included in the seven courses constituting the major.

Students majoring in Group C who have not offered at least two units of Greek or Latin for admission are required to take a year's course in either classical civilization or elementary Greek or Latin. A choice between civilization and language is subject to the approval of the major department. If the language course is elected, this requirement should normally be satisfied during the freshman year. The course satisfying this requirement may, with the approval of the major department, be included in the seven courses constituting the major.

6. *English.* (a) English 11, or its equivalent; a requirement in the freshman year for all candidates for the degree of Bachelor of Arts.

   (b) An additional half course in English literature, composition or public speaking.

   (c) Satisfactory proficiency in the use of English.

7. *Fine Arts.* A half course chosen from the following list: Fine Arts 11, 12b, 13b, 191a, 192a; Music 12, 13, 15; French 113; German 141; Greek 123a; Latin 123b.

8. *Foreign language.* (a) One course in foreign language, required in the freshman year.

   (b) One course in a foreign language at or beyond the level of third-year college courses in that language. This requirement may be met by the course required in the freshman year.

   Students whose previous education has been largely in a language other than English are relieved of this requirement upon the completion of English 11.

9. *Group A.* Two courses, in two different departments; one course in each department. These courses may not be distributed between more than two fields of study. One of them *must* be a laboratory course.

   Courses in the history of the sciences are not counted toward the fulfillment of this requirement.

10. *Group B.* Two courses, in two different departments; one course in each department. These courses may not be distributed between more than two fields of study.

GRADING AND SCHOLARSHIP

At the end of each term a final grade—in terms of A, excellent; B, good; C, average; D, poor; F, failure—is reported for each course. The modifying symbols plus (+) and minus (-) are used to indicate variations within each general classification. A report of incomplete is permitted only when severe sickness or some equally unavoidable circumstance prevents the completion of a course. Failures may not be made up, except by repeating the course.

Courses with grades of D+, D or D- may not be counted toward a bachelor's degree beyond one-quarter of the total credit required; i.e., not more than five (5) such courses, or their equivalent in fractional courses, may be counted. If grades are not given in some of the twenty courses required for the degree, the maximum credit which may be counted with grades of D+, D or D- is reduced to one-quarter of the total credit from courses in which grades are given.

PROBATION

Students with unsatisfactory grades are placed on probation. Failure of a student to remove himself from probation at the end of the semester following two consecutive terms or three non-consecutive terms normally results in separation from college.

CLASSIFICATION OF STUDENTS

A student continues to be ranked within the class in which he enters until the end of the third or junior year, at which time he will be classified as a senior only when he has credit of at least twenty-eight passing semester grades of which at least eighteen semester grades are C- or better. The Dean is empowered to classify transfer and special students when necessary.

COMPREHENSIVE EXAMINATIONS

The faculty has voted to set up a program of "comprehensive examinations" for the bachelor's degrees. These examinations, which will come in the spring of the senior year, will test the student's knowledge of his major subject as a whole. They will not duplicate the individual course examinations which he has already taken but will be designed to determine whether he has integrated his courses and has acquired a mature understanding of his subject.

The "comprehensive examinations" will be given for the first time in the spring of 1953. They will consist of at least four hours of written work plus a possible oral or laboratory examination. Students who do not pass the comprehensive examinations will be entitled to one re-examination during the following academic year, but no student will be given a third examination except by express permission of the College Board.

Certain departments will not require comprehensive examinations.

GENERAL HONORS

First honors and *second honors* are awarded annually to members of each class who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

The bachelor's degree is awarded *with honor, with high honor,* and *with highest honor* to members of each graduating class whose records, in the judgment of the College Board, warrant this distinction.

DEPARTMENTAL HONORS

An honors program, leading to the degree of Bachelor of Arts *with honors in a particular subject,* may be undertaken by a member of the junior class if his cumulative scholarship average places him among the highest third of his class. This plan permits an able student in coöperation with his honors' adviser, to organize the work of his junior and senior years into a unified program which may include a certain number of honors courses. In these he works with a considerable measure of independence under the supervision of his honors adviser. A maximum of two honors courses may be included in the program of any candidate for departmental honors. In the senior year each candidate must pass satisfactorily comprehensive examinations given by his major department.

Application for honors work should normally be made in writing to the major department not later than the first day of May of the sophomore year.

Admission to candidacy for departmental honors does not relieve a student from any of the standing regulations of the college except as specifically stated above. If a student's candidacy for honors is terminated for any reason, the amount of credit, if any, to be allowed for special honors courses will be determined by the College Board in consultation with the major department.

An honors student must withdraw from his candidacy at the end of any semester in which he has not maintained a non-cumulative standing in the upper half of his class.

SCHOLARSHIP SOCIETY

The Clark Scholarship Society was organized in 1914. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the society." Membership in the society is open to members of the faculty. Student members are elected at the end of the junior year. The selection is made from students with highest standing in the junior class. Nominations are made by the College Board and the undergraduate members of the society elect from the students so nominated. Additional nominations may be made at the middle and end of the senior year.

ABSENCES

Regulations applying to absences from scheduled class meetings and laboratory exercises are based upon the conviction that such absences, regardless of their cause, involve a loss to the student and a drag upon the class. Students are, accordingly, expected to be consistently regular in attendance. Subject to this general provision, students are given a considerable degree of freedom in the control of their attendance. It is expected that such freedom will not be abused, and that it will contribute to the growth of each student's sense of responsibility.

Detailed regulations in harmony with the foregoing principles are posted on the official bulletin board for the guidance of students. They are also published in the Students' Handbook, issued annually. Students are expected to familiarize themselves with these regulations.

Special regulations apply to attendance at the weekly assemblies and physical training.

EXTRA-CURRICULAR ACTIVITIES AND STUDENT LIFE

Student life at Clark is, as would be expected at a small institution, friendly and informal. Fixed rules and regulations are few, the assumption being that students will conform to the recognized standards of morality, good order, and gentlemanly conduct. College activities are, however, under sufficient faculty oversight to insure responsibility in business dealings and consideration of the welfare of the individual student and of the college community.

The Activities Fee. Athletics and several non-athletic activities are partially supported by an activities fee. This fee admits a student, without additional charge, to all athletic contests held on the college grounds, provides him with the college newspaper, and admits him to plays and concerts presented by the dramatic and musical clubs.

Activities. Students in Clark College have the opportunity to participate in intercollegiate soccer, baseball, tennis, basketball, fencing and crew. A competent coach has immediate supervision over the athletic teams. General supervision of the athletics program is vested in the Committee on Athletics, consisting of the Director of Physical Education, the faculty Committee on Athletics, and the Athletic Council.

In addition to intercollegiate athletics, a steadily increasing intramural program gives opportunity for widespread participation in games and contests of various sorts.

Opportunities for recreation, outside of athletics, are found in dramatic clubs and musical clubs, under expert direction; in editing and publishing the college newspaper (*The Scarlet*) and the senior yearbook (*The Pasticcio*); also in such organizations as the Debating Club and International Relations Club. Gryphon, the senior honorary society, plays an important part in campus life. Non-athletic activities are under the supervision of faculty advisers.

Formal proms, informal Bohemes and fraternity activities furnish further opportunities for social life. One of the University buildings houses the Student Union. For many students, the most prized opportunity for social contacts is in the offices and laboratories, where members of the faculty may be visited with ease and freedom.

Eligibility for Competitive Activities. Participation in organized extracurricular competitive activities is denied only when a student's scholastic record indicates that continuance in an activity might be responsible for scholastic failure.

Any student carrying less than a full program of studies is ineligible unless his reduced program permits graduation at the end of the year in which that program is carried.

Students admitted with advanced standing from another college are ineligible during the first half-semester of residence at Clark College.

A special student is normally not entitled to participate in competitive activities of the college. The College Board may, however, permit such participation in the case of a special student who is enrolled for a full program (five courses).

Eligibility for Non-competitive Activities. All students may participate so long as their scholarship proves satisfactory. Details are published in the Students' Handbook.

The Women's College of Clark University

ADVISORY BOARD FOR THE WOMEN'S COLLEGE

Mrs. Robert H. Goddard
Chairman
Mrs. Bancroft C. Wheeler
Vice Chairman
Mrs. William F. Holland
Secretary
Mrs. Arthur Lowery
Mrs. Loring H. Dodd

Mrs. Saul A. Seder
Mrs. Daniel W. Lincoln
Mrs. Paul W. Spaulding
Mrs. James B. Lowell
Mrs. John S. Tomajan
Mrs. Howard B. Jefferson
Honorary member
Miss M. Hazel Hughes

Mrs. Ralph E. Duffy

FOR THE ALUMNAE

Miss Elizabeth McManus
Chairman
Mrs. Paul J. Connolly

Miss Kathryn Jerome
Miss Carolyn Burns
ex officio

FOR THE FACULTY WOMEN'S CLUB

Mrs. Jesse L. Bullock
Chairman

Mrs. Raymond E. Murphy

Mrs. Charles T. Bumer,

The Women's College of Clark University was established in the fall of 1942 for the benefit of young women who wish to attend college in Worcester.

All courses of instruction available for men are open to women. The requirements for admission and for a bachelor's degree are identical with those for men. The same tuition and fees are charged. Requirements and fees are dealt with in detail in earlier sections of this catalog.

Undergraduate women who do not live at home are expected to live in one of the women's dormitories. If other arrangements are desired, written request from a parent or guardian must be sent to the Dean's office and the Dean's approval must be obtained.

The general supervision of the activities of women students is in the hands of Miss M. Hazel Hughes, Associate Dean for Women.

The Women's College has an Advisory Board composed of representative Worcester women as well as representatives from the Alumnae and Faculty Women's Club who are interested in the educational program, and who advise the administration on matters of general policy and social affairs.

Suitable provision has been made for the comfort and convenience of women students while on the campus. A large room on the first floor of Jonas G. Clark Hall, attractively decorated and comfortably furnished, is used by the women as a lounge and as a center for their activities. They also have gymnasium and luncheon room facilities.

An infirmary with a nurse in attendance is maintained by the University.

ADMISSION AND SCHOLARSHIPS

As stated above, requirements for admission are outlined in detail in an earlier section of this catalogue. In addition to admission to the freshman class, admission to the upper classes by transfer from other colleges is possible.

For scholarship aid to women the Trustees each year make a special grant, varying in amount with the established need.

The Clark University Women's Club and the Clark University Alumnae Association each offer two scholarships. The Swedish National Federation has a scholarship awarded annually to a deserving student of Scandinavian stock from Worcester or vicinity. The Soroptimists Club of Worcester has provided a scholarship for a woman student. Other special awards have been made possible by friends of the college.

Correspondence regarding admission and requests for application blanks should be addressed to:

Dean of the College, Clark University, 950 Main St.,
Worcester 10, Mass.

INDUCTION PERIOD

The freshman class of the women's college and all women transfer students assemble at the college on Wednesday before the opening of the academic year to become acquainted and to complete various important preliminaries before the beginning of class work. If conditions warrant, the induction period is spent at some suitable place in the country, not too far from Worcester.

A fee of $5.00 is charged for the induction period.

DORMITORIES

The Women's College has three dormitories, each housing from fifteeen to twenty students. Each dormitory has its own house mother and a dormitory committee which meets with the house mother to consider matters pertaining to dormitory living such as house meetings, the social life of the dormitory, the observance of dormitory regulations, etc. These groups also act as advisory boards for the students with whom they are associated.

A Dormitory Council composed of representatives from the three houses, the three house mothers and the Associate Dean for Women meets once a month to discuss matters of interest to the dormitory residents. This board often appoints student committees to make surveys in particular areas of student life.

STUDENT ACTIVITIES

The Women's College and the Men's College have a combined student body. The women students are eligible for all offices and participate a great deal in the planning of student body activities.

Women students have many of their own organizations but also may join many of the organizations of the men's college. They serve on *The Scarlet*—the college newspaper, *The Pasticcio*—the college yearbook, and are eligible for membership in the debating society and glee club. The women students participate in the dramatic productions, both in acting and in assisting with stage settings and costumes. They are also represented on the "Boheme Committee" which plans the college dances and on the Student Activity Fund Committee.

PHYSICAL EDUCATION AND ATHLETICS

There is a physical education program for women which is designed to improve posture and general health. Every student is given a physical examination at the beginning of each year.

Attendance at classes in physical education is required twice a week for the first two years. Participation in one group sport and in one individual sport is required during the junior year. Swimming and life saving courses are available through the entire year by arrangements with the Young Women's Christian Association. These courses are conducted by a member of the physical education staff of the University.

Several types of athletics are open to women. In the fall and spring hockey, crew, archery, tennis, and golf are conducted outdoors. Tournaments are held in the spring and fall and a cup is awarded to the winner of each event. During the winter months basketball is the principal organized athletic activity; volleyball and badminton are also offered. Women students use their own gymnasium for practice, but have the use of the University Gymnasium for games with outside organizations.

Students receive free tickets to all athletic events.

The Division of Business Administration

Arthur F. Lucas, *Director of the Division. Absent on leave, 1951-52.*

Eugene J. Kelley, *Acting Director, 1951-52.*

ADMINISTRATIVE COMMITTEE

President Howard B. Jefferson, *ex officio*

Arthur F. Lucas, *Chairman*	Homer P. Little
John E. Bell	James A. Maxwell
George E. Hargest	Raymond E. Murphy

BUSINESS ADMINISTRATION ADVISORY COMMITTEE

W. Robert Ballard, Jr.
Vice-President, John C. MacInnes Company

Donald W. Campbell,
Treasurer, State Mutual Life Assurance Company

F. Harold Daniels,
President, Riley Stoker Corporation

C. Lane Goss,
President, Worcester County Institution for Savings

Albert Palmer,
Vice-President, Crompton & Knowles Loom Works

Hiram Rasely,
Executive Vice-President, Burdett College

Jacob Reed,
Senior Partner, Reed & Company

William Sawyer, III,
President, W. H. Sawyer Lumber Company

The Division of Business Administration is an integral part of the undergraduate colleges of Clark University. Its administration is the responsibility of the Director under the supervision of the Administrative Committee of the Faculty.

The program in Business Administration is given coöperatively by the Departments of Economics and Sociology, English, Geography, History and International Relations, Mathematics and Psychology.

THE PROGRAM IN BUSINESS ADMINISTRATION

The Division of Business Administration offers a four-year program of studies designed to prepare young men and women for careers in business. Students electing this program should enroll as candidates for the degree of Bachelor of Business Administration and must meet the specific requirements for this degree. Students in the Business Administration program are entitled to all privileges of the University which are open to undergraduates, including the right to elect undergraduate courses in other fields such as social studies, language, fine arts and science.

The business program is designed to provide an opportunity for the student to become acquainted with the basic characteristics of modern industry and commerce, to acquire an understanding of the general principles of business and to receive training in the techniques common to all successful business enterprises. It should assist the student in adapting himself to general business requirements and in relating his specific job to the entirety of business and industrial enterprise as well as in perfecting his skill in particular techniques.

The program consists of carefully selected courses in arts and sciences together with specialized courses of particular interest to students of business. Among the former are basic courses in English composition, mathematics, economics, psychology, and government. Among the latter are courses in accounting, finance, managerial techniques, statistical methods, merchandising, and business law. Training in the analysis of administrative problems is emphasized throughout the program.

In addition to the program leading to the degree of Bachelor of Business Administration, the colleges offer a less intensive program in Business Administration for candidates for the degree of Bachelor of Arts. Students taking this program should major in the Department of Economics and Sociology. They must meet all the requirements for the degree of Bachelor of Arts including those in English, fine arts, foreign languages and sciences. First year students should take the normal college program for freshmen and should elect Business Administration 10 for the Group B requirement. The program for the second year should include Business Administration 117 and Economics 11. In the third and fourth years students should elect at least two basic courses in economics, such as Economics 13, 21, 22, 205 or 207, and at least four courses in business administration. The following are recommended: Business Administration 16, 18, 127, 20 and 220.

Students should note that the following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 13, 14b, 17, 109, 125, 128, 129a, 181a, 182b, 23a, 23b, 227, 237.

ADMISSION

Applicants for admission to the freshman class in the Business Administration program are accepted on the same basis as other applicants for admission to the college except that the secondary school units presented for admission may be distributed as follows:

Required subjects	8 units	*Elective subjects*	7 units
English	3 units	(of which as many as 3 units may be in commercial subjects)	
Mathematics (algebra)	1 unit	Total	15 units
†Foreign Language (one language)	2 units		
Social studies	2 units		

† Normally required.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

Candidates for the degree of Bachelor of Business Administration are subject to the same general University and College regulations as apply to candidates for the degree of Bachelor of Arts except as these are modified by the special requirements of the business program.

The Freshman Program

A uniform program is normally required of all freshmen. It includes the following courses:

	First Semester		*Second Semester*
Eng. 11a	Composition	B.A. 14b	Business English
B.A. 10a	Elements of Distribution	B.A. 10b	Elements of Production
B.A. 117	Principles of Accounting	B.A. 117	Principles of Accounting
B.A. 13a	Business Mathematics	B.A. 13b	Business Mathematics
	An elective		An elective
	Physical Training		Physical Training

Additional Course Requirements

Additional courses required of all candidates for the degree of Bachelor of Business Administration are:

B.A. 16	Business Statistics
B.A. 17a	Public Speaking
B.A. 18	Business Organization and Finance
B.A. 20	Business Law
Econ. 11	Principles of Economics
*Econ. 13	Money and Banking
Govt. 15	Introduction to Government

* Under special conditions Economics 13 may be replaced by certain other courses in economics.

Areas of Concentration

At the end of the sophomore year, each candidate for the degree of Bachelor of Business Administration must submit to his faculty adviser an integrated program of studies covering the junior and senior years. A proposed program should indicate the student's areas of special interest and the specific courses he intends to elect. Ordinarily no program will be approved that does not include in addition to the required courses named above, at least five courses in Business Administration or closely related subjects. Typical of these integrated programs are the following:

Accounting

- Intermediate Accounting
- Cost Accounting
- Auditing
- Advanced Accounting
- Industrial Management
- Federal Tax Accounting

Finance

- Business Organization and Finance
- Money and Banking
- Public Finance
- Business Cycles
- Analysis of Business Problems

Foreign Trade

- Principles of Marketing
- International Economics
- Economic Geography
- Industrial Psychology
- A foreign language

Management

- Cost Accounting
- Analysis of Business Problems
- Industrial Relations
- Industrial Management
- Techniques of Managerial Control
- Industrial Psychology

Marketing
- Elements of Distribution
- Salesmanship
- Advertising
- Marketing Research
- Sales Management
- Retailing Principles

Personnel Management
- Industrial Psychology
- Personnel Management
- Industrial Management
- Industrial Relations
- Labor Problems

HONORS PROGRAM IN BUSINESS ADMINISTRATION

An integral part of the business program is the work leading to honors in business administration. In accordance with the rules of the faculty, students in the upper third of their class may become candidates for honors. While pursuing this program they substitute special honors courses for not more than two regular year courses. Honors courses consist primarily of individual work under the personal guidance of a member of the business staff. At the end of the senior year, candidates take a comprehensive examination, which if sustained leads to the granting of honors in business administration.

COURSES IN BUSINESS ADMINISTRATION

Courses in Business Administration will be found listed with descriptions under "Business Administration" in the alphabetical list of "Departments and Courses".

DEPARTMENTS AND COURSES

- INTERDEPARTMENTAL MAJORS
- GENERAL EDUCATION
- BIOLOGY
- BUSINESS ADMINISTRATION
- CHEMISTRY
- CLASSICS
- ECONOMICS AND SOCIOLOGY
- EDUCATION
- ENGLISH
- FINE ARTS
- FRENCH
- GEOGRAPHY
- GEOLOGY
- GERMAN
- HEALTH EDUCATION FOR UNDERGRADUATE WOMEN
- HISTORY AND INTERNATIONAL RELATIONS
- MATHEMATICS
- PHILOSOPHY
- PHYSICS
- PSYCHOLOGY
- SPANISH

Departments and Courses

Departments, important subdivisions of departments and certain interdepartmental groups of courses are listed in the following pages. In general, each entry includes a departmental announcement followed by a list of courses which are offered by the department.

Interdepartmental majors and *General Education* are listed first.

Departments and their subdivisions follow the first two entries in alphabetical order.

Departmental announcements contain important general information, as well as regulations concerning graduate work in the department and statements of the requirements for undergraduate majors.

Courses are, in general, arranged in sequence under each heading so as to progress from the more elementary to the more advanced. Each course is described as it has been given during the current academic year unless an accompanying note states otherwise. Notice is given in all cases where a department plans to alter the content or to omit a course. If a course is not currently given but will be offered at a later date this fact is stated.

The unit of instruction for undergraduates is a "course." A course normally meets for classroom or laboratory exercises three or four times weekly throughout the regular academic year (September to June) and constitutes one-fifth of the normal program for an undergraduate.

Each unit of undergraduate instruction as listed below yields credit for one half-course in each semester unless its value as a fractional course or a multiple course is indicated.

Advanced courses, not primarily for undergraduates, are announced with a statement of the number of weekly meetings.

Fractional credit is given for the satisfactory completion of one semester of work in any course unless the course is designated as indivisible. Courses primarily for graduate students yield full half course credit in each semester without regard to the number of class meetings.

With the consent of the instructor, a course may be entered at the beginning of either semester.

Courses are classified under three headings as follows:

1. PRIMARILY FOR UNDERGRADUATES, designed by numbers beginning with the figure "1."

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS, designated by numbers beginning with the figure "2."

3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure "3."

Interdepartmental Majors

To provide undergraduate "majors" in certain fields which are intrinsically worthwhile culturally or professionally but which cross departmental boundaries, the Faculty has authorized a group of "interdepartmental majors". These permit a greater breadth of choice than the strictly departmental programs but preserve the unity of content and purpose which is inherent in the concept of a major.

An interdepartmental major includes eight or more required courses.

At present three programs are offered under this plan. These are listed below.

I. INTERNATIONAL RELATIONS

Freshman and Sophomore Years

General Educ. 14	Europe and the United States since 1500
Economics 11	Principles of Economics
Geography 10	Principles of Geography

Junior and Senior Years

Government 24	International Relations
Government 241	International Law and Organization
Geography 201	Political Geography
Either	
Economics 19b	Economics of National Security
or	
Economics 211b	Comparative Economic Systems
Economics 205a	Intermediate Economic Theory
Economics 207	International Economics

In case of necessity, other courses in Economics may be substituted with the consent of the instructor in charge of the program.

Instructor in charge: Associate Professor Hayden.

II. ENGLISH HISTORY AND LITERATURE

Freshman Year

General Educ. 14	Europe and the United States since 1500

Sophomore Year

History 12	History of England
English 15A and 15B	Survey of English Literature from the Beginning to 1832

Junior and Senior Years

History 221	England since 1760
English 15C	Survey of English Literature from 1832 to the Present
Philosophy 12	History of Philosophy

Six half-courses chosen from the following:

English 101b	Chaucer

Either English 13, Shakespeare and the Elizabethan Drama or English 147, Oral Interpretation of Shakespeare

English 104	Seventeenth Century, with Special Emphasis on Milton
English 105	English Literature of the Eighteenth Century
English 110b	Victorian Poetry
English 122b	Modern Poetry
English 117a	English Romantic Poetry
English 126a	Modern British and American Drama
English 142a	The English Novel

Instructor in charge: Associate Professor Anderson.

III. AMERICAN CIVILIZATION

Freshman Year

General Educ. 14	Europe and the United States since 1500

Sophomore Year

History 131	Introduction to United States History

At least two of the following courses:

Government 15	Introduction to Government
Economics 11	Principles of Economics
Sociology 11	Principles of Sociology

Junior and Senior Years

History 230	Social and Intellectual History of the United States
English 111	A Survey of American Literature

Two and one-half courses chosen from the following list:

Sociology 12a	Cultural Anthropology
Philosophy 12	History of Philosophy
History 232	American Constitutional History
History 234	American Diplomatic History
History 235	The United States in the Twentieth Century
Government 251a	American Political Parties
Sociology 22b	Race and Nationality
Sociology 25	Social Institutions
Economics 231	Economic History of the United States

Alternative courses may be chosen with the approval of the instructor in charge of the program.

Instructor in charge: Associate Professor Campbell.

General Education

Courses in General Education were introduced as a separate group in the year 1950-51. They are distinguished from the courses of departments rather by viewpoint and tone than by content. They aim to stimulate the student to intelligent and critical interest in fields of culture where he has no expectation of attaining professional competence; to create an understanding of the basic unity of knowledge and thought; and to offer the student the opportunity to obtain a core of information, ideas, and vocabulary that he will have in common with many of his contemporaries. General Education courses are thus not a part of pre-professional or pre-vocational education, are outside the sequence of courses in a student's major, and are not subject to prerequisites. However, they do fulfill the distribution requirements in the Natural Sciences, the Social Sciences, and English, according to the field in which they fall.

Courses in General Education are under the supervision of a committee which reports to the Academic Council. The present committee consists of Mr. Jordan, chairman, Mrs. Alper, Mr. Blair, Mr. Reid, and Mr. Roope.

General Education 10. An Introduction to Physical Science. This course will cover fundamental and outstanding developments of both classical and modern physics and will include selected topics from chemistry and astronomy. The methods and procedures of science as exemplified by physics will be emphasized, and considerable attention will be given to historical background and the effect of science on man's thought and life. Although students will be required to carry out a series of selected experiments, some of the laboratory periods will be devoted to demonstration, discussion, criticism, and evaluation; and no attempt will be made to develop competence in laboratory techniques.

Group A course. Open to freshmen. Primarily for non-science majors.

Through the year. M. W. F., 10; Tu., 2. Mr. Roope
Omitted 1951-52.

GENERAL EDUCATION 14. EUROPE AND THE UNITED STATES. SINCE 1500. Approaching an understanding of the modern world by a consideration of the history of western Europe and America since 1500, this course will stress the origin and development of problems and situations in the political, economic, and intellectual fields.

A fee of $1 is charged for supplies and duplicate library copies of books.

Group B course. Open to freshmen.

Through the year. Tu. Th. S., 9. MR. JORDAN, first semester
MR. LEE and MR. CAMPBELL, second semester
Assisted by Mr. Osgood

GENERAL EDUCATION 17. GREAT ENGLISH AND AMERICAN WRITERS. Unlike English 15, which tries to present a comprehensive view of the whole field of English literature from *Beowulf* to the present, this course will focus the attention on six or seven major writers in each semester. The emphasis will be placed, not on tracing literary movements or on studying literary problems *per se,* but on showing what these great figures have to say that is of interest or importance to the general reader today. Since at least two weeks will be spent on each author, the student will have a chance to determine the attitude toward life of each man, to see what gave rise to that attitude, and to evaluate it and compare it with the views of other writers treated in the course. Chronology as well as other purely factual material will be kept to a minimum.

Meets requirement for third semester of English. Open to sophomores, juniors and seniors. *May not be counted for credit with English 15.*

Divisible course. Either semester may be elected separately.

Through the year. Tu. Th. S., 10. MR. CARTER, first semester
MR. ANDERSON, second semester

GENERAL EDUCATION 18. LITERATURE AND THE NATURE OF MAN. This course is designed to serve the interests of the general student rather than the interests of the literature or language major, but it is open to all students above the freshman level. Great works from Classical, German, French, and English literature will be studied, in translation, with a view to developing an area of knowledge and experience which educated men and women have in common with the eminent creative artists of our Western civilization, and with a view to helping students understand basic problems and humane attitudes that are both constructive and creative.

Divisible course. Either semester may be elected separately.

Meets requirement for third semester of English but not the Fine Arts requirement.

Open to sophomores, juniors, and seniors with the consent of the instructors.

Through the year. M. W. F., 12. MR. ANDERSON

GENERAL EDUCATION 110. FUNDAMENTAL CONCEPTS OF ELEMENTARY MATHEMATICS. The subject matter of this course will be exposed in terms comprehensible to students with no formal training in mathematics at the college level. It is hoped that the course will show the student how the abstract and general ideas of mathematics have implications for other fields of learning.

Group A course

Open to juniors and seniors only.

Through the year. Tu. Th. S., 11. MR. BUMER

DEPARTMENT OF BIOLOGY

PROFESSOR POTTER, ASSOCIATE PROFESSOR NUNNEMACHER
ASSISTANT PROFESSOR BLAIR

The biological laboratories are well equipped for the courses offered and contain special equipment for advanced investigations. Funds are available annually for the purchase and building of apparatus which may be required. The university library contains complete files of the more important periodicals and reference works. The department maintains an herbarium of over 40,000 sheets. Certain assistantships, fellowships and scholarships are available from time to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the department, except Biology 19a.

An undergraduate majoring in biology must complete Biology 11 and three advanced courses in biology, Chemistry 11, Physics 11, Mathematics 11, and at least one additional course in chemistry, physics or geology. Mathematics 11 does not count towards the fulfillment of the major requirements.

A candidate for honors in biology must take Biology 11, 12, 14 and 240.

THE PRE-MEDICAL PROGRAM

Clark University is justly proud of its pre-medical training program. Not only do our better students have little difficulty in entering the best medical schools, but they usually rank in the upper half of their medical school classes and become respected and outstanding physicians.

The student entering upon the pre-medical program must be prepared to compete with other college students of above-average ability; he must be of good health and capable of sustained hard work; he must like and get along well with all kinds of people and he must have a real desire to help the sick and advance the science of medicine. The pre-medical student must be prepared to undertake a program of intensive study which usually takes eight years before the medical degree can be obtained. During this time the large amount of class and laboratory work reduces considerably the opportunities for earning money through outside work.

While the requirements for the Bachelor of Arts degree assure each graduate familiarity with several fields of learning, the pre-medical student should take as many non-science courses as possible to round out his general education, because medical school programs leave no time for courses outside of their technical field. Courses in psychology and human relations will be of particular benefit.

The field of medicine is open equally to men and women.

The following programs are recommended for pre-medical students with a major in biology. Program A places the emphasis on biology; Program B places the emphasis on chemistry.

Program A

First year
- English
- Foreign Language
- Mathematics
- General Biology
- Group B (one course)

Second year
- Biology 12
- General Chemistry
- Foreign Language
- Group B (one course)
- ½ course in English and ½ course Fine Arts

Third year
- Biology 220, 221, 18 (Any two)
- Chemistry 13a and 14b
- Physics 11
- Two electives

Fourth year
- Biology 240
- Chemistry 15
- Three electives

Program B

First year
- English
- Foreign Language
- Mathematics
- General Chemistry
- Group B (one course)

Second year
- Chemistry 13a and 13b
- Chemistry 14a and 14b
- General Biology
- Foreign Language
- Mathematics 12

Third year
- Chemistry 15
- Biology 12
- Physics 11
- Group B (one course)
- ½ course (elective)

Fourth year
- Chemistry 19
- Biology (two advanced courses)
- ½ course in English and ½ course Fine Arts
- One elective

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts.

COURSES IN BIOLOGY

During the academic year 1951-52 the following courses were given: 11, 12, 13, 14, 18, 201, 202, 205, 220, 221, 223, 240, 241, 244, 260, 261, 300, 320, 340, 342, 350 and 360.

1. PRIMARILY FOR UNDERGRADUATES

11. GENERAL BIOLOGY. An introduction to the fundamental principles and problems of biology.

Divisible course upon approval by the department.

Open to freshmen.

Through the year. M. W. F., 9; M., 2.

MR. POTTER AND MR. NUNNEMACHER

12. COMPARATIVE ANATOMY. A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals.

Lectures and laboratory work.

Through the year. W. F., 10; Tu. F., 2. MR. NUNNEMACHER

13. SEMINAR IN GENERAL BIOLOGY. Credit is not given for this course. All students in the department are invited to attend and to participate. STAFF OF THE DEPARTMENT

14. BOTANY. First semester, morphology and taxonomy of the lower plants. Special emphasis is given to the algae and fungi.

Second semester, systematic botany of the higher plants with special emphasis on our local flora. A collection of one hundred plants is required, also a spring program of laboratory work in the field of at least three days' duration.

Either semester of the course may be elected separately.

Prerequisite: Biology 11, first semester.

Through the year. M. W.F., 1; Th., 2. MR. POTTER

15. INVERTEBRATE ZOOLOGY.

Omitted 1951-52.

18a. GENETICS. An introduction to the principles of genetics.

Half course. First semester. M. W. F., 11. MR. POTTER

19a. HUMAN ANATOMY AND PHYSIOLOGY. An introductory semester course. Does not require Biology 11 as a prerequisite but requires Biology 11 to be counted towards the Group A requirement. May not be counted toward the fulfillment of the requirement for a major in Biology. Three lectures per week.

Omitted 1951-52. MR. NUNNEMACHER

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

201. ADVANCED SYSTEMATIC BOTANY. Through the year. Three laboratory periods and one lecture per week. Either semester may be taken separately. MR. POTTER

202. ECONOMIC BOTANY. MR. POTTER

204b. BACTERIOLOGY. An introduction to the study of bacteriology.
Half course. Second semester. M. W. F., 11. MR. POTTER
Omitted 1951-52.

205. ADVANCED GENETICS.
Three lectures per week.
Half course. Second semester. MR. POTTER

219. ENTOMOLOGY. Fundamentals of insect life.
Three lectures and one laboratory period per week.
Half course. Second semester. MR. POTTER
Omitted 1951-52.

220a. HISTOLOGY. A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mammalian tissues. Two lectures and two laboratory periods per week.
Half course. MR. NUNNEMACHER

221b. EMBRYOLOGY. A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.
Half course. MR. NUNNEMACHER

223b. PARASITOLOGY. An introduction to the parasitic mode of life of the protozoa, helminthes, and arthropoda and their relation to mankind. MR. POTTER AND MR. NUNNEMACHER
Half course. Second semester.

224b. NEURO-ANATOMY.
Three lectures per week. MR. NUNNEMACHER
Omitted 1951-52.

240. General Physiology. Open to students who satisfy the instructor as to their preparation. The principal types of functioning characteristic of living organisms are considered in the light of their physio-chemical determinants.

Through the year. Tu. Th., 11; and two laboratory periods per week. Mr. Blair

241b. Endocrinology. A study of the ductless glands and their relation to behavior.

Half course. Second semester. Mr. Blair

242. Advanced Physiology. Given through the year. Three lectures per week first semester and three laboratory periods per week second semester. Mr. Blair

Through the year.

Omitted 1951-52.

244. Biochemistry. Mr. Blair

First semester. Three lectures per week.

260. Special Problems. Advanced semi-independent study of an approved topic under the direction of a member of the staff.

Hours and credit to be arranged. Staff of the Department

261a. Microtechnique. During the first semester emphasis is placed on the preparation of animal tissues for microscopic study. The second semester is concerned with the preparation of botanical sections. Mr. Nunnemacher and Mr. Potter

Half course. First semester.

3. PRIMARY FOR GRADUATE STUDENTS

300. Readings and Research in Botany.

Credit to be arranged. Mr. Potter

320. Readings and Research in Zoology.

Credit to be arranged. Mr. Nunnemacher

340. Readings and Research in Physiology.

Credit to be arranged. Mr. Blair

342b. Enzymology.
Second semester. Two lecture and two laboratory periods per week.
Mr. Blair

350. Advanced Studies in Biology.
Tues. 4-6. Staff of the Department

360. Thesis.
Credit to be arranged. Staff of the Department

COURSES IN BUSINESS ADMINISTRATION

A description of the program in Business Administration and a statement of the requirements for the degree of Bachelor of Business Administration will be found under the general heading "Undergraduate Section" and the special heading "The Division of Business Administration."

The courses in Business Administration and related subjects which are included in the program for the degree of Bachelor of Business Administration will be found in the following pages, listed alphabetically under the headings: ACCOUNTING, ECONOMICS, ENGLISH AND PUBLIC SPEAKING, GEOGRAPHY, HISTORY AND GOVERNMENT, MANAGEMENT, MARKETING, MATHEMATICS, PSYCHOLOGY, AND STATISTICS.

Courses in *Business Administration* are listed as follows:

Course number	Listed under	Course number	Listed under
10a	Marketing	127	Accounting
10b	Management	128	"
13	Math. and statistics	129	"
14	English and pub. speaking	181	Management
16	Math. and statistics	182	"
17	English and pub. speaking	183	"
18	Management	23	Marketing
109	Marketing	27	"
112	Management	203	"
117	Accounting	227	Accounting
124	Marketing	237	"
125	"	220	Management

In 1951-52 the following courses were given: 10, 13, 14, 16, 17, 18, 112, 117, 125, 127, 128, 181, 182, 183, 20, 23, 220, 227.

Students should note that the following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 13, 14b, 17, 109, 125, 128, 129a, 181a, 182b, 23a, 23b, 227, 237.

ACCOUNTING

BUSINESS ADMINISTRATION 117. PRINCIPLES OF ACCOUNTING. The organization and use of financial records, with emphasis on their interpretation as well as on the techniques of procedure.

Indivisible course.

Required of freshmen in the Business Administration program.

Through the year. Tu. Th., 9; Tu. 2. MR. ZUKOWSKI

BUSINESS ADMINISTRATION 127. INTERMEDIATE ACCOUNTING. A study of generally accepted accounting principles and procedures and their application to asset, liability and proprietorship accounts. The analysis of financial statements, including statements from incomplete data and the statement of application of funds. Emphasis is placed upon problem analysis and solution.

This course may be entered at beginning of the second semester, but credit will not be given until both semesters have been completed.

Indivisible course.

Through the year. Tu. Th. S., 10. MR. HARGEST

BUSINESS ADMINISTRATION 128. COST ACCOUNTING. A study of the basic principles of cost accounting and their application to job order, process, estimated and standard cost procedures. Consideration is given to cost systems, budgets and the managerial control of costs. Emphasis is placed upon problem analysis and solution.

Indivisible course.

Through the year. Tu. Th. S., 8. MR. HARGEST

Offered in alternate years. To be omitted in 1952-3.

BUSINESS ADMINISTRATION 129a. FEDERAL TAX ACCOUNTING. A basic course in the fundamentals of federal income and social security taxes with major emphasis upon the preparation of returns.

Half course. First semester. MR. HARGEST

Offered in alternate years. Omitted 1951-52.

Business Administration 227a. Auditing. After an analysis of the purpose and scope of the several classes of audits, the course deals with (1) professional ethics (2) auditing standards (3) internal control systems (4) audit procedures applicable to asset, liability and proprietorship accounts, and (5) the use of worksheets and the preparation of statements and reports.

Half course. First semester. Tu. Th. S., 11. Mr. Hargest
Offered in alternate years. To be omitted in 1952-3.

Business Administration 237. Advanced Accounting. The theory and practice of accounting for branches, mergers, receiverships, estates and trusts, consolidated statements, budgets, municipal accounts and other topics of an advanced nature.

Through the year. Mr. Hargest
Offered in alternate years. Omitted 1951-52.

ECONOMICS

(See also announcement of the Department of Economics and Sociology.)

Economics 11. Principles of Economics. Required for the degree of Bachelor of Business Administration.

Economics 13. Money and Banking. Required for the degree of Bachelor of Business Administration.

Economics 15a. Public Finance.

Economics 19b. Economics of National Security.

Economics 21. Business Cycles.

Economics 22. Labor Problems.

Economics 25b. Problems in Public Finance.

Economics 26. Government and Industry.

Economics 205a. Intermediate Economic Theory.

Economics 206b. Economics of Industry.

Economics 207. International Economics.

ENGLISH AND PUBLIC SPEAKING

English 11. Composition and Literature. The first semester is required of freshmen in the Business Administration program.

Business Administration 14b. Business English. A course in English composition designed to train the student in the preparation of reports, letters, etc., used in business.

Required of freshmen in the Business Administration program.

Half course. Second semester. M. W. F., 11. Mr. Hastings

Business Administration 17a. Public Speaking. A course in the fundamentals of public speaking including the more common speech situations such as speech of introduction, address of welcome, expository and impromptu speeches; problems in human relations; voice tests, vocabulary drill.

Required for the degree of Bachelor of Business Administration.

Half course. First semester. M. W. F., 11. Mr. Illingworth

Business Administration 17b. Public Speaking. Parliamentary procedure, open forum, panel discussion, committee meetings, reports, extemporaneous speaking.

Prerequisite: Business Administration 17a.

Half course. Second semester. M. W. F., 11. Mr. Illingworth

GEOGRAPHY

(See also announcement of the Department of Geography)

Geography 10. Principles of Geography.

Geography 16. Economic Geography.

HISTORY AND GOVERNMENT

(See also announcement of the Department of History and International Relations)

Government 15. Introduction to Government.

Required for the degree of Bachelor of Business Administration.

General Education 14. Europe and the United States Since 1500.

MANAGEMENT

Business Administration 10b. Elements of Production. A survey of the production function in business, giving special emphasis to an exposition and theoretical evaluation of current practices in the fields of plant location, building and equipment selection, product and process development, maintenance, and methods of manufacture.

Half course. Second semester. M. W. F., 9. Mr. Nordstrom

Business Administration 18. Business Organization and Finance. A unified year course in the financial structure of modern industry with emphasis on the nature of the business corporation, its financial practices, types of securities, capital structure, financial reorganization, and the problems of internal financial control.

Indivisible course.

Required for the degree of Bachelor of Business Administration.

Through the year. Tu. Th. S., 8. Mr. Zukowski

Business Administration 112. Introduction to Personnel Management. A survey of the policies, practices and theory underlying the management of manpower in Industry. Representative topics studied are employee selection, training, promotion and transfer, wage payment and morale. Research into actual industrial situations is included in the second half.

Through the year. M. W. F., 10. Mr. Nordstrom

Business Administration 181a. Industrial Management. A study of the techniques of the executive control of manufacturing operations with special reference to such fields as specialization of labor, simplification and diversification of products, expansion, control of factors of production, and internal organization. The case method is used to a large degree.

Half course. First semester. M. W. F., 12. Mr. Nordstrom

Business Administration 182b. Techniques of Managerial Control. This course emphasizes those techniques by which information is communicated most efficiently in a business organization to achieve both high efficiency and high morale. This includes a survey of the contribution of office management to the efficient storing and communication of information.

Half course. Second semester. M. W. F., 12. MR. NORDSTROM

BUSINESS ADMINISTRATION 183. INDUSTRIAL RELATIONS. A study of the problems of management-employee relations including the roles of union, management and government in negotiation of trade agreements and daily relations in collective bargaining. Special attention is given to the law and labor relations.

Through the year. Tu. Th. S., 9. MR. MELDER

BUSINESS ADMINISTRATION 20. BUSINESS LAW. A study of the legal basis of business and the principles of statutory and common law as they affect business relationships; covering such subjects as contracts, property, sales, negotiable instruments and agency.

Indivisible course.

Required for the degree of Bachelor of Business Administration.

Through the year. M. W. F., 8. MR. BREEN

BUSINESS ADMINISTRATION 220. ANALYSIS OF BUSINESS PROBLEMS. A unified year course in the analysis of specific problems of administration and policy making. The course is designed to integrate the principles covered in more specialized courses in Business Administration in order that the student may acquire an appreciation of the broad business picture, while developing his ability to view business and economic problems from an over-all standpoint.

Indivisible course.

Through the year. M. W., 2-3:30. MR. KELLEY

MARKETING

BUSINESS ADMINISTRATION 10a. ELEMENTS OF DISTRIBUTION. An introduction to the study of business activities involved in the flow of goods and services from producer to consumer. Required of freshmen in the business administration program.

Half course. First semester. M. W. F., 9. MR. KELLEY

Business Administration 23a. Advertising. An introduction to the principles and practices of advertising. The emphasis is on the executive use of advertising as a tool of marketing. Topics studied include the economic functions of advertising, advertising research, media selection, advertising organizations, and testing.

Half course. First semester. M. W. F., 11. Mr. Kelley

Offered in alternate years. To be omitted 1952-53.

Business Administration 23b. Salesmanship. A study of the basic principles and problems of modern salesmanship; functions of sellers, basic knowledge needed in selling, and specialized sales problems.

Half course. Second semester. M. W. F., 11. Mr. Kelley

Offered in alternate years. To be omitted 1952-53.

Business Administration 27a. International Trade and Finance. A study of the nature, theoretical basis, methods of financing and government control of the international movement of goods.

Half course. First semester. Omitted 1951-52.

Business Administration 109. Sales Management. A course designed to give the student experience in analyzing sales problems, arriving at practical solutions, and defending these solutions. Sales administration, operation, control, promotion, and policies are studied during the course.

Half course. Mr. Kelley

Offered in alternate years. Omitted 1951-52.

Business Administration 124. Principles of Marketing. An analysis of the institutions and processes involved in the distribution of goods and services, including a study of consumer motivation, retailing and wholesaling institutions, and marketing policies and practices. Attention will be given to study and discussion of actual marketing problems.

Half course. Mr. Kelley

Omitted 1951-52.

Business Administration 125. Retailing Principles. A survey of the major phases of retailing including discussions of the retailer in our economy, the store and its organization, aspects of buying and selling, operating activities and personnel, and retail control.

Half course. Second semester. M. W. F., 9. Mr. Kelley

Business Administration 203b. Marketing Research. A study of the types of problems faced by business executives in marketing and the ways in which the methods of scientific business research can be used for their solution.

Half course. Second semester. M. W. F., 11. Mr. Kelley

Offered in alternate years. Omitted 1951-52.

MATHEMATICS AND STATISTICS

Business Administration 13. Business Mathematics. An elementary course designed to give the necessary foundation for an understanding of the basic processes involved in business transactions.

Required of freshmen in the Business Administration program.

Through the year. Tu. Th. S., 10. Mr. Stubbe

Business Administration 16. Business Statistics. This course is designed to give students knowledge of and experience in the collection and presentation of statistical data and in the handling of the basic tools of statistical analysis, and their application to sampling and tests of significance, to index numbers, time series, and simple multiple, and partial linear correlation and regression, in so far as these techniques are useful in the analysis of problems in economics and business.

Required for the degree of Bachelor of Business Administration.

Indivisible course.

Through the year. Tu. Th., 9 and Tu. 2-4.

Mr. Nordstrom and Mr. Hargest

Mathematics 11. Freshman Mathematics.

Mathematics 17. Mathematical Statistics.

PSYCHOLOGY

(See also announcement of Department of Psychology)

PSYCHOLOGY 11. GENERAL PSYCHOLOGY.

PSYCHOLOGY 190b. INDUSTRIAL PSYCHOLOGY.

DEPARTMENT OF CHEMISTRY

PROFESSOR BULLOCK, PROFESSOR MARTELL, ASSOCIATE PROFESSOR KEGELES, ASSISTANT PROFESSOR MARTIN

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. These furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those primarily for graduate students.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should major in chemistry and take at least two years' work in physics.

They are advised to conform as closely as possible to the schedule given below.

First year: Chemistry 11; Mathematics 11; English 11; one course in "group B" and foreign language, preferably German.

Second year: Chemistry 13, 14a and b; Physics 11; Mathematics 12 and a continuation of work in foreign language.

Third year: Chemistry 15 and 19; and electives.

Fourth year: Five courses, chosen from the following: Chemistry 112b, 116, 212b; Physics 15 and 17; an elective. A choice with reference to future work, should be made after consultation with the chemistry staff.

Chemistry 19, required of all chemistry majors, is essential for work in physiology. Two years of mathematics are required preparation for Chemistry 19 and for graduate work in chemistry. The same amount of mathematics is required for all who elect chemistry as a "major," and for all who expect to become professional chemists.

For professional work in chemistry, at least one year of graduate study is highly desirable.

Students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain elective courses scheduled for the third and fourth years.

Students who intend to study medicine but are not chemistry majors should elect courses 11 and 15 which are required for admission to practically all "class A" medical schools. Courses 13 and 14 are strongly recommended if time allows.

Attention is called to laboratory fees and breakage deposits listed under the general heading "Laboratory Fees and Deposits."

GRADUATE WORK

The Department of Chemistry offers advanced courses in the fundamental principles of physical, organic, inorganic and analytical chemistry, and these are supplemented by specialized courses and research work in physical and organic chemistry. The graduate program is designed to lead to the degrees of Master of Arts and Doctor of Philosophy. Besides a successful completion of the fundamental courses offered in the graduate school, candidates for both degrees must show facility in conducting a laboratory investigation and a command of the subject which is chosen for the thesis or dissertation.

All graduate students are required to have an adequate reading knowledge of French and German. This requirement applies to candidates for both the master's degree and the doctor's degree.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department. Further information may be obtained from the chairman of the department.

COURSES IN CHEMISTRY

During the academic year 1951-52 the following courses were given: 11, 13, 14a, 14b, 15, 19, 112b, 116, 212b, 215, 236b, 31, 35, 36, 38, 315, 321, 333.

In 1952-53 the following courses will be offered: 11, 13, 14a, 14b, 15, 19, 112b, 116, 212b, 215, 33, 34, 322, 323, 35, 38, 315.

1. PRIMARILY FOR UNDERGRADUATES

11. General Chemistry. Systematic study of the elements and their principal compounds and the fundamental laws and theories of chemistry. Three lectures and three hours of laboratory work per week.

Prerequisite for Chemistry 13 and 14.

Divisible only by consent of instructor.

Through the year. M. W. F., 11; M., 2 or Th. 2. Mr. Bullock

13. Chemical Principles. A study of the use of chemical principles in working out problems, including the study of gases, solutions, thermochemistry and homogeneous equilibrium. Three lectures and three hours of laboratory work per week.

Prerequisites: Chemistry 11.

Through the year. M. W. F., 11; M. 2. Mr. Martin

14a. Gravimetric Analysis. Required for a major in chemistry. Chiefly laboratory work.

Prerequisite: Chemistry 14a.

Half course. First semester. Tu. F., 2. Mr. Bullock

14b. Volumetric Analysis. Required for a major in chemistry. Chiefly laboratory work.

Prerequisite: Chemistry 11.

Half course. First semester. Tu. F., 2. Mr. Bullock

15. Organic Chemistry. Lectures on the principles of organic chemistry and a laboratory study of the preparation and properties of important organic compounds. Three lectures and three hours of laboratory per week.

Prerequisite: a grade of C–, or better, in Chemistry 11.

Through the year. M. W. F., 9; Tu. or Th., 2. Mr. Martell

19. PHYSICAL CHEMISTRY. Principles of physical chemistry including atomic and molecular structure, gases, liquids, solutions, crystalline solids, chemical thermodynamics, homogeneous and heterogeneous equilibria, electrolytic conductance, electrode potentials, electrolysis and polarization, reaction kinetics, colloids.

Three hours of lectures and four hours of laboratory per week.

Required for a major in chemistry.

Prerequisites: Chemistry 13, 14b, Mathematics 12, Physics 11. Mathematics 13 is strongly recommended.

Through the year. Tu. Th. S., 10; F., 2. MR. KEGELES

112b. PHYSICO-CHEMICAL METHODS. An advanced laboratory course in physical chemistry. Registration limited.

Open to students who have taken or are taking Chemistry 19.

One lecture and six hours of laboratory work per week.

Half course. Second semester. MR. KEGELES

116. ADVANCED ORGANIC CHEMISTRY. Electron theory of molecular structure, reaction mechanisms, natural products and other advanced topics in organic chemistry. Laboratory work includes qualitative and quantitative organic analysis, and special problems in synthesis.

Prerequisites: Chemistry 15 and 14b.

One lecture and 6 hours of laboratory work per week.

Through the year. T. W. Th., 2. MR. MARTIN

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

212b. HISTORY OF CHEMISTRY. Outline of historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 15 and 19 or equivalent courses.

Half course. Second semester. M. W., 10. MR. BULLOCK

215. HONORS COURSE. Primarily for candidates for "honors in chemistry." STAFF OF THE DEPARTMENT

PLEASE POST **PLEASE POST**

CLARK UNIVERSITY
DEPARTMENT OF CHEMISTRY
Worcester 10, Mass.

NEW COURSE ANNOUNCEMENT

Chem.236b Principles of Instrumental Analysis

The Clark University Chemistry Department takes pleasure in announcing the opening of a new course on the graduate level entitled "PRINCIPLES OF INSTRUMENTAL ANALYSIS." Trends in the field of analytical chemistry have been more and more towards the use of instruments and remarkable strides have been made in this respect in recent years. In view of the importance of instruments in modern analytical practice, the development of a course encompassing the principles underlying the use of instruments in chemical analysis has become imperative for our own graduate students. In addition to this, the department has had inquiries regarding the offering of such a course from several chemists working in or near Worcester. In response to these requests and anticipating a general interest, the department is offering this as an evening course open to those qualified.

"PRINCIPLES OF INSTRUMENTAL ANALYSIS" will be given by Dr. Richard B. Martin in collaboration with Dr. Arthur E. Martell and Dr. Gerson Kegeles. The course will be given during the second semester of the current academic year and will consist of one one-hour lecture and two three-hour laboratory periods per week.

The material which will be covered in this course is given in the following outline. Minor departures may be made as the work progresses.

1. Potentiometry, pH meters, glass electrodes, hydrogen and silver-silver chloride electrodes, and applications.
2. Dropping mercury electrode, standardization, and coulometric analysis of metal ions in mixtures.
3. Beckmann Model DU Spectrophotometer, absorption spectra, analysis of colored solutions, and a study of metal complexes.
4. Colorimetric analysis, Duboscq and photoelectric colorimeters.
5. Interferometer, precision refractive indices.
6. Abbé refractometer.
7. Chromatography, separation of colored and colorless mixtures on columns, use of Abbé refractometer in quantitative analysis.
8. Sedimentation, diffusion, and electrophoresis. Quantitative analysis of model curves.
9. Infrared spectrophotometry, analysis of model curves, and quantitative analysis of mixtures. Field trips.

The suggested times for meeting are Tuesdays 5-6:00 p.m. and 7-10:00 p.m. and Thursdays 7-10:00 p.m. These hours may be changed on request of the class at the first meeting, however.

The course is open to any college graduate possessing a bachelor's degree with a major in chemistry. The tuition charge for this course is $45.00, a $25.00 laboratory fee and a $5.00 matriculation fee are required, making the total cost for anyone desiring to take this one course $75.00. Due to laboratory restrictions enrollment for this course has to be limited, and for it to be offered as an evening course a minimum enrollment of eight is necessary. The final date for registration for this course is January 29, 1952. The first meeting is scheduled for Tuesday, February 5, at 5:00 p.m.

For further information write to Dr. Richard B. Martin

236b. PRINCIPLES OF INSTRUMENTAL ANALYSIS. The theory underlying the use of instruments in chemical analysis—including potentiometry, the dropping mercury electrode, spectrophotometry, colorimetric analysis, measurements of refractive indices, chromatography, sedimentation, diffusion and electrophoresis.

Open to graduate students and qualified chemists in the community.
One hour of lecture and six hours of laboratory work per week.
Half course. Second semester. Tu., 6-10 P.M. and Th. 7-10 P.M.
MR. MARTIN, MR. MARTELL and MR. KEGELES
To be omitted 1952-53.

3. PRIMARILY FOR GRADUATE STUDENTS

31a. REACTION MECHANISMS. Lectures on the behaviour of organic substances from the viewpoint of resonance and electronic structure.

Three hours throughout the year. MR. MARTELL

31b. STEREOCHEMISTRY. Lectures on geometrical and optical isomerism. Studies on the preparation and use of optically active compounds. MR. MARTELL

Chemistry 31a and 31b are offered together in alternate years. To be omitted in 1952-53.

321. ADVANCED PHYSICAL AND COLLOID CHEMISTRY. Selected topics in physical and colloid chemistry described in detail. Introduction to thermodynamics. Phase rule. Chromatography. Electrochemistry. Osmotic and sedimentation equilibrium. Molecular kinetic properties of macromolecules in steady state systems.

Offered in alternate years. To be omitted in 1952-53.
MR. KEGELES

322. QUANTUM MECHANICS. Elementary quantum mechanics and the application of the wave theory of matter to chemical structure.

Offered in alternate years. Omitted 1951-52. MR. MARTELL

323a. THERMODYNAMICS. Applications of classical thermodynamics to chemical systems. Statistical mechanical analogs of thermodynamic functions. MR. KEGELES

323b. MACROMOLECULES. Some physical properties of protein molecules and crystals, virus particles, and synthetic high polymers.
MR. KEGELES

Chemistry 323a and 323b are offered together in alternate years. Omitted 1951-52.

33. ADVANCED ORGANIC CHEMISTRY. Lectures on the fundamental reactions in organic chemistry.
Offered in alternate years. Omitted 1951-52.
MR. BULLOCK

333. HETEROCYCLIC COMPOUNDS. MR. BULLOCK
Offered in alternate years. To be omitted in 1952-53.

34. ADVANCED INORGANIC CHEMISTRY. Lectures on selected topics in inorganic chemistry.
Offered in alternate years. Omitted 1951-52. MR. MARTIN

35. SEMINAR. Reports on research work being performed in the laboratory and reports and discussions of recently published work in related fields.
THE STAFF AND GRADUATE STUDENTS

36a. PRINCIPLES OF ANALYTICAL CHEMISTRY. Lectures on the theoretical basis of analytical chemistry.
Offered in alternate years. To be omitted 1952-53. MR. MARTIN

38. CURRENT TOPICS IN CHEMICAL LITERATURE. THE STAFF

315. RESEARCH. THE STAFF

DEPARTMENT OF CLASSICS

ASSISTANT PROFESSOR BARLOW

The Department of Classics provides undergraduate courses for the acquisition of a reading knowledge of Greek and Latin and for the study of Greek and Latin literary masterpieces in their original form. Advanced courses providing a major in Classics are offered from time to time as the need arises. In addition to the courses requiring knowledge of an ancient language, there are others given entirely in English, which deal with all phases of the Greek and Roman civilizations.

Since it may not be possible to offer courses in elementary Latin and Greek every year, students who desire to elect them should consult the instructor as far in advance as possible.

During the academic year 1951-52 the following courses were given: Greek 12, 123a; Latin 17, 123b.

1. PRIMARILY FOR UNDERGRADUATES

Greek

11. Elementary. Study of Greek grammar through forms, syntax, vocabulary, and reading; selections from Xenophon's Anabasis.

Indivisible course.
Open to freshmen.
Through the year. Mr. Barlow
Omitted 1951-52.

12. Plato, Apology and Crito; Homer, Iliad. Prerequisite: Greek 11 or equivalent.

Open to freshmen.
Through the year. M. W. F., 12. Mr. Barlow

123a. Greek Civilization. Lectures and readings on the history, literature, philosophy, art, religion, and government of Greece, with emphasis on the elements which have contributed most to Western civilization. Given in English.

Greek 123 may be counted in fulfillment of the general requirement in art, music, and literature (Group D), but not in fulfillment of the requirement in foreign language.

Open to freshmen.
Half course. First semester. Tu. Th. S., 11. Mr. Barlow

LATIN

11. ELEMENTARY. Introduction to the Latin language through study of forms, syntax, and vocabulary, with emphasis on the Latin element in English words. Reading of selections from Latin prose.
Indivisible course.
Open to freshmen. MR. BARLOW
Omitted 1951-52. To be offered in 1952-53.

12. CICERO, ORATIONS; VERGIL, AENEID.
Prerequisite: Latin 11 or two years of Latin for admission.
Open to freshmen. MR. BARLOW
Omitted 1951-52.

13. SELECTIONS FROM HORACE AND CATULLUS; COMEDIES OF PLAUTUS AND TERENCE. The work of the course may begin with easy prose selections, to satisfy the lack of uniformity in preparation in secondary schools.
Prerequisite: Latin 12 or three or four years of Latin for admission.
Open to freshmen.
Through the year. MR. BARLOW
Omitted 1951-52.

15. LIVY AND TACITUS; CICERO, DE AMICITIA, AND LUCRETIUS.
Prerequisite: Latin 13 or equivalent.
Open to sophomores.
Through the year. MR. BARLOW
Omitted 1951-52.

17. ROMAN SATIRE; MEDIEVAL LATIN.
Prerequisite: Latin 13 or equivalent.
Open to sophomores.
Through the year. M. W. F., 10. MR. BARLOW

19. SURVEY OF LATIN LITERATURE.
Prerequisite: Latin 13 and one other course.
Open to juniors and seniors only.
Through the year. MR. BARLOW
To be offered in 1952-53. Not previously offered.

123b. Roman Civilization. Lectures and readings on the history, literature, philosophy, art, religion, law, and government of ancient Rome, with emphasis on the transmission of Greek civilization, on the developments which have contributed to Western civilization, and on the condition of the Roman Empire during the early years of the development of Christianity. Given in English.

Latin 123 may be counted in fulfillment of the general requirement in art, music, and literature (Group D), but not in fulfillment of the requirement in foreign language.

Open to freshmen.

Half course. Second semester. Tu. Th. S., 11. Mr. Barlow

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

Professor Maxwell, Professor Lucas,* Associate Professor Melder, Associate Professor Killian, Associate Professor Hargest, Assistant Professor Kelley, Assistant Professor Nordstrom, Mr. Schaffer, Mr. Zukowski, Lecturer Breen, Visiting Lecturer Bosland, Visiting Lecturer Kuh

The first aim of the department, in its undergraduate courses, is to give the student a comprehensive grasp of the underlying principles and functions of our economic and social institutions, and to develop habits of systematic and unbiased thought about these institutions. Some of the courses, however, contribute to the student's preparation for a business or professional career (Economics 13, 15a, 22, 26, etc.) and are specifically recommended to students who are candidates for the degree of Bachelor of Business Administration. Conversely, some students majoring in economics may be advised to elect certain courses in Business Administration which are credited toward the degree of Bachelor of Arts (Business Administration 10, 16, 112, 117, 18, 124, 127, 20, 27a, 203, 220).

---

*Absent on leave 1951-52.

Economics 11 is a prerequisite to all other courses in economics and is required of all majors in the department. Similarly Sociology 11 is a prerequisite to other courses in Sociology. Courses taken outside the department in partial fulfillment of the major requirement should be selected, subject to departmental approval, so as to provide a unified program centering about the student's major interest. Majors in economics will ordinarily be required to take Economics 205a, Intermediate Economic Theory.

Candidates for departmental honors will engage in a program of independent study consisting of reading and research designed in part to give them specialized training in the fields of their major interest and in part to supplement formal courses. Ordinarily a student will not begin his independent study until the second semester of the junior year, nor will he undertake the equivalent of more than two courses in this manner.

Courses in sociology will be found listed, with descriptions, immediately after the list of courses in economics.

In making elections, students should bear in mind that some advanced courses are offered only in alternating years.

GRADUATE WORK

Students expecting to enter upon graduate work should have mastered creditably basic courses in economics equivalent to at least four courses, including Economics 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the doctorate is offered in cycles of two or three years. Individual work with instructors and in small intimate seminars constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

COURSES IN ECONOMICS

During the academic year 1951-52 the following courses were given: Economics 11, 13, 15a, 21a, 21b, 22, 25b, 28, 205a, 207, 211b, 231, 260a, 39, 311, 322, 324, 325, 326, 327, 338.

Descriptions of courses listed below under the designation "Business Administration" will be found in the announcement of "Courses in Business Administration".

1. PRIMARILY FOR UNDERGRADUATES

11. PRINCIPLES OF ECONOMICS. An introduction to the fundamental economic principles, together with a study of the practical application of these principles to the problems of American life.
Indivisible course.
Through the year. M. W. F., 11. MR. SCHAFFER
Assisted by MR. METTLER

BUSINESS ADMINISTRATION 112. PERSONNEL MANAGEMENT.

BUSINESS ADMINISTRATION 117. ACCOUNTING.

BUSINESS ADMINISTRATION 124. MARKETING.

BUSINESS ADMINISTRATION 127. INTERMEDIATE ACCOUNTING.

13. MONEY AND BANKING. The principles of money and banking with special reference to their functions in the present economy. The theory of value of money, control of the money market and the problem of money and credit in the world economy are given detailed consideration.
Indivisible course.
Through the year. M. W. F., 10. MR. MAXWELL

140b. CONSUMER ECONOMICS. A study of family budgets, planes of living, and other problems arising in the purchase of the customary goods and services. Emphasis is upon housing, insurance, savings, investments, consumer services supplied by advertisers, private noncommercial agencies, the government, and the cooperative movement.
Half course. Second semester. Tu. Th. S., 9.
Omitted 1951-52.

15a. PUBLIC FINANCE. The principles of governmental expenditures, revenues, and debts, with particular reference to the United States.

Half course. First semester. M. W. F., 9. MR. MAXWELL

BUSINESS ADMINISTRATION 16. STATISTICS.

BUSINESS ADMINISTRATION 18. BUSINESS ORGANIZATION AND FINANCE.

115b. FISCAL DEVELOPMENT OF THE UNITED STATES. This course treats the development of the functions and revenues of the federal government and of the state governments (with brief notice of municipalities). For the recent period most attention is given to federal-state fiscal interrelations in the form of federal grants-in-aid, tax conflicts and shared taxes. Recent proposals for a revision of federal-state fiscal relations both for the purpose of bringing federalism up to date and for implementing a high employment program are considered.

Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. MR. MAXWELL
Omitted 1951-52.

19b. ECONOMICS OF NATIONAL SECURITY. This course examines the special economic problems faced by our contemporary American society as it undertakes a program of general military preparedness. Particular attention is given to overall American foreign policy and its relation to economic problems in production, resources and economic controls.

Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. MR. SCHAFFER
Omitted 1951-52.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

BUSINESS ADMINISTRATION 20. BUSINESS LAW.

205a. INTERMEDIATE ECONOMIC THEORY. An analysis of contemporary economic theory, with attention to consumer demand, production, factor demand, prices, market structure, and aggregate economics.

Half course. First semester. M. W. F., 8. MR. SCHAFFER

BUSINESS ADMINISTRATION 203. MARKETING RESEARCH.

206b. ECONOMICS OF INDUSTRY. Description and analysis of some basic American industries with emphasis on their important problems.
Half course. Second semester. MR. SCHAFFER
Omitted 1951-52.

207. INTERNATIONAL ECONOMICS. An examination of traditional international economic theory, and its more recent developments which take into account underemployment, imperfect competition and dynamic factors. The application of these theories, and of the lessons of history, to policies and problems arising out of post-war institutions and projects, and the future of world trade.
Through the year. Tu. Th., 1:30-3. MR. MELDER

21a. BUSINESS CYCLES. Analysis of recurrent business fluctuations differentiating the typical business cycle and its phases. Treatment of the history, theories of causation and proposals for control of the business cycle.
Half course. First semester. M. W. F., 9. MR. SCHAFFER

21b. NATIONAL INCOME ANALYSIS. A study of national income accounts and analysis of depression, full employment and inflation under capitalism. Special emphasis on the work of J. M. Keynes and other contemporaries.
Half course. Second semester. M. W. F., 9. MR. SCHAFFER

210a. ECONOMIC AND SOCIAL REFORM. A study of the development of economic institutions involved in society's attempt to solve its basic economic problems. General emphasis on free enterprise, planning and contemporary industrial organization oriented towards an improved understanding of the American economy.
Half course. First semester. Tu. Th. S., 11. MR. SCHAFFER
Omitted 1951-52.

211b. COMPARATIVE ECONOMIC SYSTEMS. An analysis of contemporary and recent industrialized economic systems, particularly Great Britain, U.S.S.R., Nazi Germany, Fascist Italy, and Sweden.
Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. M. W. F., 8. MR. SCHAFFER

Business Administration 220. Analysis of Business Problems.

22. Labor Economics and Labor Problems. A study of the labor force in the American economy, its problems and the several approaches of organized workers, employers and government to the solution of these problems. The second semester is devoted largely to the study of legislative control of industrial relationships and the Social Security program.

Through the year. Tu. Th. S., 11. Mr. Melder

231. Economic History of the United States. In the first semester, colonial agriculture, industry, commerce and finance are briefly treated, followed by the Revolution and the Constitution, financing the Revolution, economic development to the Civil War, economic background and consequences of the Civil War. In the second semester the main topics are economic developments in agriculture, transportation, population, labor, industry, finance, currency and banking.

Through the year. M. W. F., 11.
Mr. Maxwell and Mr. Campbell

25b. Problems in Public Finance. This course deals mainly with problems of post-war taxation and fiscal policy. The theory underlying the so-called "full employment" act of 1946 is discussed, along with methods by which it may be implemented. Other questions for examination are reform of the federal corporate income tax and death duties, incentive taxation, federal debt policy, the capital budget, federal budgetary procedure.

Half course. Second semester. M. W. F., 9. Mr. Maxwell

26. Government and Industry. An analysis of the proper function of government in controlling economic activity, including theories of control, historical development of control, and such special problems as the regulation of trusts, public utilities, and railroads.

Through the year. Mr. Lucas
Omitted 1951-52.

260a. PROBLEMS IN GOVERNMENT AND INDUSTRY. Advanced study of the modern business corporation with special emphasis on financial practices and the need for, and development of, government regulation in the field of private finance.

Half course. First semester. M., 1:30-4:30. MR. BOSLAND

BUSINESS ADMINISTRATION 27a. INTERNATIONAL TRADE AND FINANCE.

28. RESEARCH IN SELECTED ECONOMIC PROBLEMS. Includes departmental honors work and other individual projects completed for credit.

Hours as arranged. STAFF OF THE DEPARTMENT

29a. ECONOMICS OF TRANSPORTATION. A study of the development of the transportation system of the United States; its contemporary structure, importance, and economic aspects; the development of public control. Railway rate making and standards therefor; railway combinations and proposals for consolidation; railway labor problems.

Half course. First semester.

Omitted 1951-52.

3. PRIMARILY FOR GRADUATE STUDENTS

39. ECONOMIC THEORY. Analysis of the theories of representative economists. Most attention is given to Smith, Ricardo, Mill, Marshall, Chamberlin, Keynes.

Through the year. W. F., 2-3:30. MR. MAXWELL and MR. KUH

311. SEMINAR. STAFF OF THE DEPARTMENT

Through the year. W., 7:30-9:30; F., 4-6.

Research courses are offered to meet the needs of the individual students for work not presented in regularly scheduled courses.

321. RESEARCH IN BUSINESS CYCLES. MR. SCHAFFER

322. RESEARCH IN LABOR. MR. MELDER

324. RESEARCH IN MARKETING. MR. KELLEY

325. RESEARCH IN PUBLIC FINANCE AND MONEY AND BANKING. MR. MAXWELL

326. RESEARCH IN BUSINESS ORGANIZATION AND GOVERNMENT CONTROL OF BUSINESS. MR. LUCAS

327. RESEARCH IN INTERNATIONAL ECONOMICS. MR. MELDER

338. THESIS. STAFF OF THE DEPARTMENT

SOCIOLOGY

An undergraduate whose primary interest is in sociology may meet the departmental requirement for a major by completing Economics 11 and three or four courses in sociology together with three or two approved courses in related departments. History 10, 205 and 230, Psychology 200 and 203, and Government 15 are particularly recommended for this purpose.

GRADUATE WORK

Students expecting to enter upon graduate work should have mastered creditably basic courses in sociology equivalent to at least four courses, including Sociology 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the master's degree only is offered. Individual work with instructors and in small intimate seminars constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

Courses in Sociology

During the academic year 1951-52 the following courses were given: 11a, 11b, 24b, 25, 28, 29. In the 1951 summer term: 12a, 16b.

1. PRIMARILY FOR UNDERGRADUATES

11. Principles of Sociology.

A study of human origins and the development of man and his culture; cultural and ethnic backgrounds of social life; personality, culture and social structure; social organization and structure; social relations, social groups, collective behavior, human ecology; social differentiation and stratification; socialization and social interaction; social disorganization and change; social institutions and social norms.

Prerequisite for further work in sociology.

Through the year. Tu. Th. S., 11. Mr. Killian
Assisted by Mr. McGuire

12a. Introduction to Cultural Anthropology.

The evolution and development of man and his culture: Basic concepts; the races of man and their distribution; process of adaptation and adjustment through culture; primitive, historic and modern culture complexes compared; divergence, transmission, and function of culture; origin and growth of civilizations; contemporary pre-literate peoples; relationship of anthropology to the other social sciences.

Half course. Mr. Killian
Omitted 1951-52.

16. Social Problems and Their Analysis. A study of current social problems in the setting of social and cultural change; trends affecting the quantity and quality of problems; mobility, urbanization, secularization, individualization, population composition. A study, in this setting, of typical and selected problems such as dependency, personal maladjustment, group disfunction, institutional breakdown, minority groups and deviant behavior.

Half course. Mr. Killian
Omitted 1951-52.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

21a. THE FAMILY AND SOCIETY.

A study of the form and function of the family at different culture levels; the influence of geographic, biological, demographic and cultural forces; secondary groups and the family; rural and urban family.

Half course. First semester. MR. KILLIAN
Omitted 1951-52.

22b. RACE AND NATIONALITY.

The meaning of race; the distribution of ethnic groups; ethnic group characteristics—biological and environmental theories. The meaning of nationality; early types of immigrants in America; the cultural backgrounds of the earlier Americans. American minority groups and problems—the Negro, the Jew and other minority groups. The effects of later immigration; immigration restrictions and the quota system; displaced persons and proposed legislative control measures; prospective future of the American population.

Half course. Second semester. MR. KILLIAN
Omitted 1951-52.

23b. CRIME, DELINQUENCY AND SOCIETY.

Study of the explanations for crime and delinquency; history of punishment; other methods of control. Survey of the English and American criminal law and administration of criminal justice; development of penal and correctional methods including probation, parole, release procedures; the juvenile court. Proposals for youth courts and youth correction authorities. Emphasis on crime as a system of behavior. Proposals for dealing with crime and delinquency.

Half course. Second semester. MR. KILLIAN
Omitted 1951-52.

24b. COMMUNITY ORGANIZATION.

The contemporary American urban and rural community in action. Nature and types of community; its place in history. Organization of communities in rural and urban life. Community studies and surveys. The constellation of community social agencies. The field of social work, recreation and welfare. Community chests and councils. Sociology and community organization.

Half course. Second semester. Tu. Th., 2-3:30. MR. KILLIAN

25a and b. SOCIAL INSTITUTIONS. Institutional theory: the history and development of major social institutions.

First semester: Social Control and Social Institutions. The basis of institutions in primitive experience: life functions and belief systems of primitive peoples; family and kinship systems as points of departure for institutional differentiation. Religious institutions: institutional aspects of religions in the historical contexts of Hebrew, Greek, Roman and modern experiences.

Second semester: Legal Institutions. Law and the social order: development of Western legal institutions; the normative content and analysis of legal institutions and law; the legal tradition in Western society; law as a means of social control. Law, science and policy; law and its functions in modern times; the changing basis of legality; premises concerning man and his world in relation to law and its function. Sociology, anthropology and law: selected readings in theory and analysis of case materials.

Prerequisites: Sociology 11 or permission of the instructor.

Divisible course.

Through the year. Tu. Th., 1:30-3. MR. KILLIAN

28. RESEARCH IN SELECTED SOCIOLOGICAL FIELDS.

Includes departmental honors work and other individual projects completed for credit.

See also: Economics 140b, 210a, 22.

29a. SOCIAL THEORY AND INTRODUCTION TO SOCIOLOGICAL CONCEPTS.

The development of man's ideas about social life, emphasizing the chief contributions from Plato and Aristotle to Herbert Spencer. The general progress of sociology since Spencer.

Half course. First semester. Tu. Th. S., 10. MR. KILLIAN

3. PRIMARILY FOR GRADUATE STUDENTS

38. RESEARCH.

See also: Economics 311, 322.

DEPARTMENT OF EDUCATION

PROFESSOR JONES,* ASSISTANT PROFESSOR V. B. JOHNSON, ASSISTANT PROFESSOR LANE, ASSISTANT PROFESSOR BORGER

With the cooperation of PROFESSOR ILLINGWORTH of the Department of English and ASSOCIATE PROFESSOR WARMAN of the School of Geography.

The department has as its primary objective the providing of professional study for teachers and prospective teachers in secondary schools. It offers work leading to the degree of Master of Arts in Education and specializes in instruction leading to that degree. Many of the regular courses are scheduled in the late afternoons to meet the needs of both full-time students in Education and in-service teachers.

UNDERGRADUATE WORK

A limited number of courses are open to juniors and seniors in the College who wish an introduction to the field for purposes of general education or pre-professional training. The Department recommends, however, that undergraduate students looking to secondary school teaching as a career concentrate upon the subject-matter fields in which they desire to teach, and reserve for a fifth year the professional work in the theory and practice of education. In keeping with this general plan an undergraduate major in education is not offered.

GRADUATE WORK

The requirements for the degree of Master of Arts in Education cannot be adequately stated in terms of courses to be taken, because the evaluation of the work of each student will be made on the basis of achievement rather than on the basis of courses completed. However, the minimum essentials in terms of course requirements are outlined below.

Course requirements. The student is expected to elect one of the following groups of studies as the field in which he wishes to teach:

---

*Absent on leave, first semester 1951-52.

(a) Mathematics and natural sciences
(b) History, geography, and economics
(c) Ancient and modern foreign languages
(d) English, alone or in combination with some related subject.

Prior to receiving the degree, the candidate must have completed in undergraduate and graduate study combined not less than five year-courses in one of the above groups, or in a combination of groups approved by the Department of Education. At least two semester-courses in a subject-matter field must be taken as a part of the study in residence for the advanced degree and must be passed with a grade satisfactory for graduate credit. In addition to the above requirement in the subject-matter field, eight semester-courses of graduate work in education will normally be required. The program of courses to meet these requirements must be approved in advance by the Department. Changes in the proportion of education and subject-matter courses may be made by the Department on the basis of the candidate's previous training. Work, additional to the above requirements, either in the subject-matter field or in education, or both, may be required if this seems necessary for the adequate preparation of the candidate.

Thesis. The candidate must present a thesis, or special report. The thesis will be adapted to the vocational needs of the candidate and will not be regarded as an index of his capacity for research. In this respect it may differ somewhat from the thesis required of candidates for the degree of Master of Arts in other fields.

Courses in Education

During the academic year 1951-52, the following courses were given: 25b, 200a, 200b, 201b, 204a, 205b, 207b, 208a, 208b, 209a, 214, 290b, 311, 313, 315a.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200a. Introduction to Education. A study of the various factors involved in the development of modern education. Although designed primarily as a first course for prospective teachers, it also furnishes an overview of education for the general student.

Half course. First semester, M. W. F., 8. Mr. Johnson

200b. SOCIAL FOUNDATIONS OF EDUCATION. An analysis of elements that form the background for our educational principles and practice.

Half course. Second semester. M. W. F., 8. MR. BORGER

201a. EDUCATIONAL PSYCHOLOGY: CHILD GROWTH AND DEVELOPMENT. A study of the principles basic to the understanding of children with special attention to emotional and social development and learning in the elementary school years.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. W., 4-6. MR. LANE
Omitted 1951-52.

201b. EDUCATIONAL PSYCHOLOGY: ADOLESCENT GROWTH AND DEVELOPMENT. A study of psychological principles as they bear upon learning and other problems of education with special reference to the growth and development of youth of secondary school age.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. S., 11-1. MR. JONES

202b. HISTORY OF EDUCATION. A study of the relationship between society and its educational agencies. One of the main purposes of the course is to help prospective teachers assess the strengths and weaknesses of our educational traditions.

Half course. Second semester. MR. JOHNSON
Omitted 1951-52.

204a. GUIDANCE IN CHILDHOOD AND ADOLESCENCE. A study of the development of attitudes and behavior in children and adolescents, with special attention to guidance and learning in school and home. Provision will be made for extra work for undergraduates desiring a third hour of credit.

Half course. First semester. W., 4-6. MR. LANE
To be offered in the second semester 1952-53.

205b. THE TEACHING OF ENGLISH. Methods of teaching composition, poetry, drama, novel and short story.

Half course. Second semester. M., 4-6. MR. ILLINGWORTH

207b. USE OF AUDIO-VISUAL MATERIALS AND COMMUNITY RESOURCES IN TEACHING. A survey of principles and practices in the use of visual and auditory materials and community resources in teaching. Provisions will be made for extra meetings for undergraduates desiring a third hour of credit.

Half course. Second semester. W., 4-6. MR. BORGER

208a. METHODS AND MATERIALS IN SECONDARY EDUCATION. A study of methods and techniques used by the teacher in the secondary classroom and a survey of materials available.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. Th., 4-6. MR. BORGER

208b. PRINCIPLES OF SECONDARY EDUCATION. A survey of the major objectives of education, the special functions of the secondary school, and the principles which underlie the learning and teaching process.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. Th., 4-6. MR. BORGER

209a. TEACHING OF THE SOCIAL STUDIES. A study of objectives, methods and materials in the teaching of the social studies in the secondary schools.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. M., 4-6. MR. BORGER

210a. PSYCHOLOGICAL APPROACH TO CITIZENSHIP DEVELOPMENT. A survey and evaluation of the experimental evidence and of the practices in the field of character and citizenship development among children and adolescents.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. S., 11-1. MR. JONES

Omitted 1951-52. To be offered in 1952-53.

214. TESTS AND MEASUREMENTS APPLIED TO PSYCHOLOGICAL AND EDUCATIONAL PROBLEMS. A study of the measurement of aptitude, achievement, interest and attitude. Theoretical considerations and practical problems will be included.

Through the year. M., 4-6. MR. JONES

Given in second semester only 1951-52.

GEOGRAPHY 20b. GEOGRAPHY IN EDUCATION. A survey of geography in the present-day American schools. The course is designed to meet the needs of those expecting to teach geography.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. W., 4-6. MR. WARMAN

25b. PRINCIPLES OF PHYSICAL EDUCATION. The course will provide instruction and laboratory work (1) in the principles and practice of organizing and teaching physical education, and (2) in the administration and teaching of athletic sports including the prevention and care of athletic injuries.

Two hours classroom work, including lecture and discussion, plus four hours laboratory and field work. Permission of instructor required.

Half course. Second semester. Tu., 4-6. Laboratory time to be arranged. MR. GRANGER AND ASSOCIATES

290b. PHILOSOPHY OF EDUCATION. An examination of aims, processes and materials of education with special reference to the influence of philosophical ideas on educational problems.

Half course. Second semester. Tu. Th. S., 8.

MR. V. JOHNSON AND MR. BECK

PRIMARILY FOR GRADUATE STUDENTS

311. VOCATIONAL GUIDANCE. A survey of the techniques and tools of the vocational counselor, including occupational information, vocational testing, methods of interviewing and counseling, case histories and reports, administration and organization of vocational guidance programs.

Through the year. Tu., 4-6. MR. LANE

313. STATISTICAL METHODS. The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in measurement and research.

Through the year. W., 4-6. MR. JONES

Given in the second semester only 1951-52.

315a. APPRENTICESHIP TEACHING. An informal course consisting of extensive practice teaching in the field or fields in which the student plans to teach. Individual supervision is given by the department and by critic teachers in coöperating schools.

First semester. Time to be a arranged.

MR. JONES AND MR. BORGER AND CRITIC TEACHERS

350. RESEARCH IN EDUCATION. Individual direction of students in their research projects. THE STAFF

360. DEPARTMENTAL SEMINAR.

THE STAFF AND GRADUATE STUDENTS

DEPARTMENT OF ENGLISH

PROFESSOR ILLINGWORTH, ASSOCIATE PROFESSOR ANDERSON, ASSISTANT PROFESSOR MOORE, ASSISTANT PROFESSOR CARTER, MR. LETENDRE, AND MR. HASTINGS

All freshmen who are candidates for the degree of Bachelor of Arts must take both English 11a and b. Freshmen enrolled in the Division of Business Administration are required to take English 11a and Business Administration 14b. Freshmen may also enroll in English 143b.

General Education 17 (Great English and American Writers) is designed especially for non-English majors, and either half is recommended for students who wish to take a course in literature as a means of fulfilling the requirement of a third semester of English beyond English 11. English 15, 111, and other courses, with the consent of the instructor, are also open to non-English majors.

A major in English consists of seven courses in addition to English 11, as follows:

1. English 15A and B. *For English majors,* these are prerequisite to any of the following courses: 15C, 18, 101b, 104, 105, 110b, 111, 113, 117b, 133b, and 142a.
2. English 15C and three other half-courses in English which are open only to juniors and seniors. These should be chosen from: 18, 101b, 104, 105, 110b, 111, 113, 117b, 133b, and 142a.
3. Two additional half-courses in English.
4. Three courses in allied fields: General Education 14, a year course in Philosophy, and one other course approved by the department. Recommended courses are: History 12, French 113, German 141, Greek 123a and Latin 123b.

An English major who has not been credited with two units of Latin or Greek for admission to the college must complete either a course in Latin or Greek or a course in Classical civilization (Greek 123a and Latin 123b). If possible, this requirement should be met in the freshman year.

An English major who intends to do graduate work in English should elect at least two additional courses in English and should make certain that his program includes English 18a, 101b, 113, and History 12.

English majors should follow as closely as possible the following program:

First year
- English 11
- Group A
- Group B (General Education 14)
- Foreign language
- One elective (Fine Arts is recommended)

Second year
- English 15A and B
- Two half-courses in English from group of courses open to sophomores, namely: 16a, 19b, 122b, 126a, 127a, 143b, 146a, 147b, and General Education 18
- Group A
- Foreign language
- One elective. One of the following is recommended: History 12, French 113, German 141, Greek 123a and Latin 123b.

Third year

- English 15C and one other half-course in English from courses open only to juniors and seniors
- Two other half-courses in English (recommended)
- Foreign language
- Group B (a year course in philosophy)
- One elective

Fourth year

- Two half-courses in English from courses open only to juniors and seniors
- Four other half-courses in English (recommended)
- Two electives

The Prentiss Cheney Hoyt Prize in Poetry

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH

During the academic year 1951-52 the following courses were given: 11, 12, 13, 15A, 15B, 15C, 16a, 18, 19b, 104, 110b, 122b, 127a, 142, 143b: for the Division of Business Administration; B.A. 14b, B.A. 17: for the department of Education; Education 205b: in General Education; G.E. 17.

Courses in English are grouped under the following headings:

- I Composition
- II A Literature, Surveys and Other General Courses
- II B Literature, Special Periods or Individual Authors
- III Public Speaking and Dramatics

Course number	Listed under	
11	I	Composition
12	III	Public Speaking and Dramatics
15	II A	Literature, Surveys, etc.
16	I	Composition
18	II A	Literature, Surveys, etc.
19	I	Composition
101	II B	Literature, Special Periods, etc..
104	II B	" " " "

105	II B	Literature, Special Periods, etc.
110	II B	" " " "
111	II A	Literature, Surveys, etc.
113	II B	Literature, Special Periods, etc.
117	II B	" " " "
122	II B	" " " "
126	II B	" " " "
127	II B	" " " "
133	II A	Literature, Surveys, etc.
142	II A	" " "
143	II B	Literature, Special Periods, etc.
145	III	Public Speaking and Dramatics
146	III	" " " "
147	III	" " " "

I. COMPOSITION

11. Composition and Literature. The purpose of English 11 is to develop clarity and accuracy in reading and writing. The first semester reviews the principles of rhetoric and offers the student practice in analyzing difficult expository passages. The second semester aims to help the student develop sound critical principles in evaluating fiction, drama, and poetry.

Required of freshmen in the Bachelor of Arts program. The first semester is required of freshmen in the Business Administration program.

Through the year. M. W. F., 9; 10; 11. Tu. Th. S., 10; 11.

Mr. Carter, Mr. Hastings, Mr. Letendre and Mr. Moore

16a. Creative Writing. This course is designed for students who have demonstrated an aptitude for composition and who desire training in creative writing with emphasis on the short story. Individual conferences weekly.

Half course. First semester. Tu. Th. S., 11. Mr. Moore

19b. Advanced Composition. This course is designed for students who desire further training in the basic principles of composition. Special attention is given word choice, sentence and paragraph structure, and organization. Exposition is emphasized. Individual conferences.

Half course. Second semester. Tu. Th. S., 11. Mr. Moore

II. LITERATURE

II A. LITERATURE: SURVEYS AND OTHER GENERAL COURSES

15. A SURVEY OF ENGLISH LITERATURE. A course in English literature from its beginning to the present time.

This course runs through three semesters as follows:

A.	Beginning to 1660 (first semester)	MR. ANDERSON
B.	1660 to 1832 (second semester)	MR. MOORE
C.	1832 to the present (first semester)	MR. LETENDRE

Divisible for non-English majors.

No student may count both English 15 and General Education 17 toward the Bachelor of Arts degree.

M. W. F., 11.

GENERAL EDUCATION 17. GREAT ENGLISH AND AMERICAN WRITERS. See "General Education" immediately preceding the alphabetical list of "Departments and Courses".

18. THE BIBLE AS LITERATURE. First semester, Old Testament; second semester, New Testament.

Divisible course.

Through the year. M. W. F., 10. MR. ILLINGWORTH

111. A SURVEY OF AMERICAN LITERATURE. A course in American literature from Puritan times to the present.

Divisible for non-English majors.

Through the year. Tu. Th. S., 11.

MR. ANDERSON and MR. LETENDRE

Offered in alternate years. Omitted 1951-52.

133b. A HISTORY OF LITERARY CRITICISM.

Half course. Second semester. M. W. F., 10.

Omitted 1951-52.

142a. THE ENGLISH NOVEL. A study of the novel from its beginning to Thomas Hardy.

Half course. First semester. M. W. F., 8. MR. ILLINGWORTH

II B. LITERATURE: SPECIAL PERIODS OR INDIVIDUAL AUTHORS

101b. CHAUCER. After a study of the text of two or three of the *Canterbury Tales,* the main works of Chaucer are read more rapidly. The student is also introduced to Middle English grammar and is given drill in reading Chaucer aloud.

Half course. Second semester. M. W. F., 10. MR. ANDERSON
Offered in alternate years. Omitted 1951-52.

13. SHAKESPEARE AND THE ELIZABETHAN DRAMA. A study of the development of Shakespeare as a dramatist, with the main emphasis on *Hamlet, Othello, Lear,* and *Macbeth,* together with a briefer treatment of representative works by Lyly, Greene, Marlowe, Kyd, Jonson, Dekker, Beaumont and Fletcher, and Webster.

Divisible course.
Through the year. Tu. Th. S., 11. MR. ANDERSON
Offered in alternate years. To be omitted 1952-53.

104. MILTON AND THE SEVENTEENTH CENTURY.
Divisible course.
Through the year. M. W. F., 9. MR. CARTER
Offered in alternate years. To be omitted 1952-53.

105. EIGHTEENTH CENTURY.
Indivisible course.
Through the year. M. W. F., 9. MR. CARTER
Offered in alternate years. Omitted 1951-52.

117b. ENGLISH ROMANTIC POETRY.
Half course. Second semester. Tu. Th. S., 11. MR. MOORE
Offered in alternate years. Omitted 1951-52.

110b. VICTORIAN POETRY. A detailed analysis of the poetry of Tennyson, Browning, and Arnold, with particular emphasis on the Pre-Raphaelites, the Aesthetes, and the precursors of modern poetry.

Half course. Second semester. Tu. Th. S., 10. MR. LETENDRE
Offered in alternate years. To be omitted 1952-53.

122b. MODERN POETRY. Hardy, Hopkins, Yeats, Eliot, and Auden are used as key figures in a general survey of the main trends in modern poetry and poetic criticism.

Half course. Second semester. M. W. F., 10. MR. HASTINGS
Offered in alternate years. To be omitted 1952-53.

126a. MODERN BRITISH AND AMERICAN DRAMA.

Half course. First semester. Tu. Th. S., 10. MR. LETENDRE
Offered in alternate years. Omitted 1951-52.

127a. MODERN CONTINENTAL DRAMA. A survey of European drama from Ibsen to the present.

Half course. First semester. Tu. Th. S., 10. MR. LETENDRE
Offered in alternate years. To be omitted 1952-53.

143b. THE MODERN NOVEL. A comparative study of representative twentieth century novels of Russia, Germany, France, Sweden, England, and the United States to show how different cultures have treated this vehicle of literary expression.

Half course. Second semester. M. W. F., 8. MR. ILLINGWORTH
Open to freshmen.
To be omitted 1952-53.

III. PUBLIC SPEAKING AND DRAMATICS

12. PUBLIC SPEAKING. A course in the composition and delivery of the most commonly used speeches, parliamentary procedure, discussion groups, and vocabulary drill.

Indivisible course.
Through the year. M. W. F., 9. MR. ILLINGWORTH

145a. STAGECRAFT. A study of the principles and problems involved in producing plays. Practical experience will be given through laboratory work and public performances.

Half course. First semester. MR. ILLINGWORTH
Omitted 1951-52.

145b. ACTING. Develops the actor from a close study of his basic requirements. An analysis of the emotions, business, pantomime, and interpretation given in theory and practice.

Half course. Second semester. MR. ILLINGWORTH
Omitted 1951-52.

146a. Oral Interpretation of Literature. A course stressing the imagination and the dramatic instinct as fundamental sources of good oral and pantomimic expression. The intellectual elements of vocal expression are studied with special reference to phrasing, inflection, and emphasis; individual and choral speaking.

Permission of the instructor is a condition for enrolling in this course.

Half course. First semester. M. W. F., 10. Mr. Illingworth
Omitted 1951-52. To be offered 1952-53.

147b. The Oral Interpretation of Shakespeare. The life of Elizabethan England with special emphasis on the theatre of Shakespeare. Recordings of such actors as Paul Robeson, Maurice Evans, John Gielgud, and Orson Welles. The plays to be read will include *Hamlet, Cymbeline, Julius Caesar, King Lear, Othello, The Comedy of Errors, Merchant of Venice, Taming of the Shrew, As You Like It, Henry V* and *Richard II.*

Half course. Second semester. Mr. Illingworth
Omitted 1951-52. To be offered 1952-53.

DEPARTMENT OF FINE ARTS

Assistant Professor H. E. Johnson, Mr. Cowardin

With the cooperation of Associate Professor Nicol, Assistant Professor Barlow, Assistant Professor Edwards, and Mr. Sante Graziani, Head of the School of the Worcester Art Museum, and his Staff.

The Department of Fine Arts offers two programs for the major. One is intended for those interested primarily in the history of art. The other is designed to provide sound training in fundamentals for qualified students whose principal interest is in the practice of art.

The program offered in cooperation with the School of the Worcester Art Museum has the advantage of affording a thorough professional grounding in art without the sacrifice of liberal arts training. Courses to be taken in the museum school are carefully chosen with regard to the individual student's professional objective.

Thus programs vary for those interested in the practice of painting or sculpture, the teaching of art, or commercial art. Students who elect this program will have completed, upon graduation, the approximate equivalent of two years of art school training. It should be emphasized that this is an alternative major program and that students electing it must still fulfill all general requirements for the degree of Bachelor of Arts.

The programs for a major in Fine Arts are as follows:

History of Art

1) The basic course, Fine Arts 11, to be completed before the end of the sophomore year.
2) Fine Arts 111.
3) General Education 14, to be completed before the end of the sophomore year.
4) Two full courses chosen from the following: Fine Arts 15, 16, 191a, 192a.
5) One full course chosen from the following: French 113, German 141, Greek 123a and Latin 123b.
6) Music 12.

Practice of Art

1) Fine Arts 11.
2) General Education 14.
3) Seven courses listed in the catalog of the School of the Worcester Art Museum.

COURSES IN FINE ARTS AND MUSIC

During the academic year 1951-52 the following courses in Fine Arts have been given: 11, 111, 12b, 16, 192a; and Music 12, 13.

FINE ARTS

1. PRIMARILY FOR UNDERGRADUATES

Fine Arts 11. An Introduction to Western Art. A preliminary discussion of terminology and basic aesthetic considerations in the visual arts is followed by a study of architecture, sculpture, and painting from the beginnings to the present day. Field trips are required.

Open to freshmen.

Through the year. M. W. F., 9. MR. COWARDIN

FINE ARTS 111. DRAWING AND PAINTING 1. Analysis of elements; color and value theory; studies from still life and models; lectures on composition. Students attend classes of the School of the Worcester Art Museum.

Ordinarily open only to majors in Fine Arts.

Through the year. M. Tu. F., 1:30. MR. GRAZIANI

FINE ARTS 12b. A SURVEY OF PAINTING IN THE WEST. The development of pictorial expression from the beginnings to the present. Emphasis is placed upon methods and styles. Field trips are required. Designed primarily for non-majors. May not be counted in addition to Fine Arts 11.

Open to freshmen.

Half course. Second semester. M. W. F., 12. MR. COWARDIN

Offered in alternate years. To be omitted 1952-53.

FINE ARTS 13b. A SURVEY OF ARCHITECTURE AND SCULPTURE IN THE WEST. A consideration of fundamental architectural terminology and principles is followed by a study of major works of architecture and sculpture from the beginning to the present day. Emphasis is placed upon stylistic development. Field trips are required. Designed primarily for non-majors. May not be counted in addition to Fine Arts 11.

Open to freshmen.

Half course. Second semester. M. W. F., 12. MR. COWARDIN

Offered in alternate years. Omitted 1951-52.

FINE ARTS 15. THE ART OF THE RENAISSANCE IN ITALY. The first semester is devoted to a consideration of architecture (Brunelleschi through Palladio), and sculpture (Jacopo della Quercia through Michelangelo); the second semester is concerned with painting (Masaccio through Raphael). Emphasis is placed upon the historical background. Field trips are required. Fine Arts 11 is ordinarily prerequisite.

Through the year. M. W. F., 11. MR. COWARDIN
Offered in alternate years. Omitted 1951-52.

FINE ARTS 16. THE ART OF THE SEVENTEENTH AND EIGHTEENTH CENTURIES. A consideration of the origins of the baroque style, followed by a study of major works of European art of the seventeenth and eighteenth centuries. The principal stylistic trends are stressed. The more important artistic personalities—Bernini, Rubens, Rembrandt, Velasquez, and others, are also treated in detail. Field trips are required. Fine Arts 11 is ordinarily prerequisite.

Through the year. M. W. F., 11. MR. COWARDIN
Offered in alternate years. To be omitted 1952-53.

FINE ARTS 191a. THE ART OF THE ANCIENT NEAR EAST AND INDIA. This course is primarily concerned with architecture and sculpture in ancient Mesopotamia, Assyria, Persia, and India. Significant works are examined critically and studied in relation to their historical and religious background. Field trips are required.

Half course. First semester. Tu. Th. S., 9. MR. COWARDIN
Omitted 1951-52.

FINE ARTS 192a. THE ART OF CHINA AND JAPAN. An introduction to the art of the Far East. Sculpture and painting in China from the prehistoric period to the Ming dynasty, and, in Japan, from the Suiko to the Tokugawa period. Architecture will be treated only incidentally. Field trips are required.

Half course. Tu. Th. S., 9. MR. COWARDIN
Offered in alternate years. To be omitted 1952-53.

MUSIC

MUSIC 12. INTRODUCTION TO MUSIC. Beginning with the genesis of sonata-form, the course extends to the beginning of the twentieth century. The Vienna classicists, the romantic movement, the rise of impressionism, and the so-called modernists are treated in various types of music heard in concert-hall, opera house, and over the radio.

An indivisible course except that qualified students may be admitted for the second semester with the consent of the instructor.

Through the year. M. W. F., 10 and 11 (2 sections).

Mr. H. E. Johnson

Music 13. The Opera. A course in the evolution of opera from Peri's *Dafne* to Berg's *Wozzeck*. A large repertory of major scores is studied with such historical and literary backgrounds as may conveniently be applied.

Elective for sophomores, juniors, and seniors.

Through the year. Mr. H. E. Johnson

Music 14a. The Life and Works of Beethoven. A formal and stylistic analysis of major works by music's most inspired prophet of the nineteenth century. There is intensive score-reading. The biographical material is widened to include the unique relationship of Beethoven's creative work to the changing times in which he lived. Music 12, or some previous interest in music is prerequisite.

Half course, first semester. Tu. Th. S., 10.

Omitted 1951-52. Mr. H. E. Johnson

Music 15b. Twentieth Century Music. The changing concepts of musical form and style parallel those in the visual arts and are closely related. Beginning most conspicuously with Debussy, the newer idioms are traced in this course to the present day through careful study of works by Ravel, Stravinsky, Hindemith, Copland, Berg, Schönberg, Harris and many others whose scores have significance for their time. Music 12 or some acquaintance with the literature of music is prerequisite.

Elective for sophomores, juniors, and seniors.

Half course. Second semester. Tu. Th. S., 10.

Omitted 1951-52. Mr. H. E. Johnson

Music 15a. Music to 1750. A course in early music from its primitive stages, through the Middle Ages, and the productive 14th-16th centuries, culminating in the masterworks of Bach and Händel. As in all music courses, emphasis is placed on forms and styles. Music 12 or some acquaintance with the literature of music is prerequisite.

Elective for sophomores, juniors, and seniors.
Half course. First semester. Tu. Th. S., 10. MR. H. E. JOHNSON
Omitted 1951-52.

For descriptions of the following courses see the announcements of the departments concerned.

FRENCH 113.	INTRODUCTION TO FRENCH CIVILIZATION.	MR. NICOL
GERMAN 141.	GERMANIC CIVILIZATION.	MR. EDWARDS
GREEK 123a.	GREEK CIVILIZATION.	MR. BARLOW
LATIN 123b.	ROMAN CIVILIZATION.	MR. BARLOW

FRENCH

A description of the offerings in French and a list of courses in French will be found in the announcement of the Department of Romance Languages.

GENERAL EDUCATION

A statement concerning General Education and a description of the courses offered under this heading will be found immediately before the announcement of the Department of Biology in this section of the university catalog.

GEOGRAPHY

A complete statement of the organization and special requirements in the Graduate School of Geography will be found in an earlier section of this catalog under the heading The Graduate School of Geography.

UNDERGRADUATE PROGRAMS

Undergraduates planning to major in geography or to enter graduate work in geography are urged to consult the geography staff early in their undergraduate courses, to plan suitable programs including essential courses in related fields.

Majors in geography are required to take seven year-courses, or the equivalent, in geography and related fields. At least four, and not more than five of these courses must be in geography.

Geography 10, Principles of Geography, is usually taken in the freshman year (or as early as possible after the major subject is chosen to be geography). One or two of the following courses may be taken during the sophomore year: Geography 12a—Introduction to Climatology; Geography 16, Economic Geography; Geography 191, Cartography. Courses in geography, such as 18, Geography of New England, 25, Conservation of Natural Resources, and regional courses should not be undertaken until the junior or senior years. Juniors of superior standing and seniors may be accepted, by special permission, to take number "2" geography courses, such as 27a, Human Geography; 27b, Cultural Geography; 201, Political Geography; 20b, Geography in Education (primarily for those expecting to teach); 282a, Geography of North America; 283b, Geography of South America; 285a, Geography of Europe. A non-credit seminar is conducted for all seniors who are majoring in Geography.

Courses in Fields Related to Geography

Students majoring in geography should plan early to take the required courses in other fields in order to possess the prerequisites for admission to advanced related courses in their junior and senior years to parallel the courses in their geography program.

Related fields may be found listed under Division B. General Education 14 is recommended for the freshman year. Courses recommended for the sophomore year are: Sociology 11, Economics 11, Government 15, History 12. More advanced work in the fields of sociology, international relations, psychology and philosophy will depend largely upon the individual student's interests and desires.

Subjects in Division A, which are strongly recommended by the staff of the Department of Geography, are geology and biology. However, where special interest is expressed in physics, chemistry, psychology or mathematics the student's program can be planned to include these subjects.

"Honors Work" and Comprehensive Examinations

The Clark University Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The staff, composed of specialists in their various fields of geography offer regular courses in instruction and direct advanced students in research work. Hence, a junior or senior pursuing an "honors program" in geography is afforded an opportunity to associate with other students in the Graduate School of Geography. For example, a superior student, after petitioning and receiving approval of the College Board and the Secretary of the Graduate Board, may undertake 391, Advanced Cartography; 314, Physiography of the Western Hemisphere; 33, Soils and Land Use; 32, Climatology; 36, Problems of Economic Geography; and some graduate regional courses. On rare occasions an undergraduate student has been invited to participate in the Fall Field Camp of the Graduate School.

Independent research projects may be undertaken with the adviser in constant surveillance. This research work may be in the fields of human geography, physiography, geography in education, economic geography, land utilization, cartography and regional geography. Such research work must be completed within the semester in which it is started, or proof advanced that the study warrants more time. The staff also conducts an oral examination of at least one hour's length to ascertain the achievement of an "honors student".

A seminar, required of all seniors who are majoring in geography, is established to explore problems relative to the comprehensive examinations.

Courses in Geography

The following courses were given in 1951-52.

10, 12a, 20b, 283b, 37	Mr. Warman
36, 361	Mr. Murphy
201, 285a, 32, 37b, 300	Mr. Van Valkenburg
18, 314, Map Interpretation	Mr. Lougee
16, 33, 34	Mr. Higbee
191, 291	Mr. Burnham
30. Seminar	Staff

399a. FIELD STUDIES — STAFF
391 — VISITING PROFESSOR RAISZ
29 — MR. WARMAN AND MR. VAN VALKENBURG

1. PRIMARILY FOR UNDERGRADUATES

10. PRINCIPLES OF GEOGRAPHY. An introductory course dealing primarily with the physical phases of geography and the application of the principles of geography to the study of selected regions throughout the world. Juniors and seniors admitted only by special permission.

Through the year. M. W. F., 10. MR. WARMAN

12a. INTRODUCTION TO CLIMATOLOGY. Elements of meteorology and climatology with practical exercises. Emphasis on most recent theories; explanation of distribution of types of climate and weather.

Prerequisite: Geography 10 or equivalent.

Half course. First semester. Tu. Th. S., 11. MR. WARMAN

16. ECONOMIC GEOGRAPHY. The geography of the world's mineral, plant and soil resources with special reference to problems of use and conservation.

Prerequisite: Geography 10 or Economics 11, or equivalent.

Through the year. M. W. F., 11. MR. HIGBEE

18a. GEOGRAPHY OF NEW ENGLAND. A field and lecture course with special emphasis on Worcester first, then New England. Class meetings begin about the middle of October, following the field camp. Because of the late beginning, three special week-end programs of laboratory work in the field of three hours each, with carefully prepared reports of each, are required.

Prerequisites: Geography 10 and Geology 12, or equivalent.

Half course. First semester. M. W. F., 9. MR. LOUGEE

191. CARTOGRAPHY AND GRAPHICS. Preparation of maps, graphs, charts, and block drawings.

Through the year. M., 3-5; W., 12. MR. BURNHAM

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

20b. Geography in Education. A survey of geography in the present-day American school system, designed to meet the needs of those expecting to teach geography.

This class meets in the late afternoon for the convenience of public and private school teachers.

Half course. Second semester. W., 4-6. Mr. Warman

25. Conservation of Natural Resources. A survey of natural resources including a study of ways and means of insuring wise utilization of essential or strategic resources.

Through the year. M. W. F., 10. Mr. Higbee

Omitted 1951-52. To be omitted 1952-53.

29. Presentation Techniques of Geographic Material. A methods course for graduate students who plan to teach on secondary, college, and university level. Non-credit course.

Hours to be arranged. Mr. Van Valkenburg and Mr. Warman

201. Political Geography. A study of major political problems of the world as related to geographic factors. Application of principles to international relations of selected regions.

Through the year. Tu. Th. S., 10. Mr. Van Valkenburg

282b. Geography of North America. A systematic regional treatment of the physical, economic and cultural geography of North America.

Half course. Second semester. M. W. F., 9. Mr. Lougee

Omitted 1951-52.

283a. Geography of Middle America. Historical background of the republics and islands of the Caribbean; analysis of selected important regions; increasing importance of the Caribbean area in commercial and political relations; detailed study of large scale maps.

A third contact hour for undergraduates will be arranged.

Two hours. First semester. Tu. Th., 2. Mr. Warman

Omitted 1951-52.

283b. GEOGRAPHY OF SOUTH AMERICA. Analysis of the major geographic regions; special geographic problems of Latin American governments; detailed study of topographic maps.
Three hours. Second semester. M. W. F., 1. MR. WARMAN

285a. GEOGRAPHY OF EUROPE. An intensive study of the continent and detailed study of selected regions.
Half course. First semester. M. W. F., 1. MR. VAN VALKENBURG
To be omitted 1952-53.

285b. GEOGRAPHY OF ASIA. An intensive survey of the continent region by region.
Half course. First semester. M. W. F., 1.
Omitted 1951-52. MR. VAN VALKENBURG

291. CARTOGRAPHY AND GRAPHICS.
Through the year. Hours to be arranged. MR. BURNHAM

3. PRIMARILY FOR GRADUATE STUDENTS

30. SEMINAR. Required of all graduate students.
Hours to be arranged. THE STAFF

32. REGIONAL CLIMATOLOGY. A study of the climates of the world by major regional examples.
Two hours, through the year. M. W., 8. MR. VAN VALKENBURG

33a. SOILS GEOGRAPHY. A review of the development and character of soils, their distribution and economic significance, in the light of their geographical relationships.
Two hours. First semester. M. W., 9. MR. HIGBEE

33a and 33b should be taken through the same year.

33b. LAND UTILIZATION AND PLANNING. An outline of relationships that physical and cultural factors bear to purpose and pattern of land uses, conservation of land resources, and basic elements of land planning.
Two hours. Second semester. M. W., 9. MR. HIGBEE

34. BIOGEOGRAPHY. Geographical significance of character, function, distribution, and relationships of plant and animal forms and societies in their adjustments to environment.

Two hours. Through the year. W., 2-4. MR. HIGBEE

36. PROBLEMS IN ECONOMIC GEOGRAPHY. An advanced study of economic geography, dealing especially with mining, agriculture, and manufacturing. Emphasis upon research methods and techniques.

Two hours, through the year. M. W., 10. MR. MURPHY

37a. HUMAN GEOGRAPHY. A study of the influence and effect of location, area, relief, coastline, drainage systems, climate, and other geographic factors, separately, and in their mutual interaction upon the economic, social, and political development of peoples and states.

Half course. First semester. Tu. Th., 1. MR. WARMAN

(37a and 37b should be taken through the same year.)

37b. CULTURAL GEOGRAPHY. A summary of the role that geographic factors have played in the evolution of races and cultures, artifacts and institutions.

Half course. Second semester. Tu. Th., 1. MR. VAN VALKENBURG

39. HISTORICAL BACKGROUND OF GEOGRAPHY. A series of lectures on European and American phases.

Hours to be arranged. THE STAFF

Omitted 1951-52.

300. PH.D. SEMINAR. Hours to be arranged.

MR. VAN VALKENBURG

311b. OCEANOGRAPHY. The study of the Oceans from the standpoint of the great basins, their inherent characteristics and their economic worth. Non-credit course.

Hours to be arranged.

Omitted 1951-52.

314. REGIONAL PHYSIOGRAPHY OF WESTERN HEMISPHERE. A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.

Two hours of lecture and two hours of laboratory weekly.

Through the year. Tu. Th., 9. MR. LOUGEE

Offered in alternate years. To be omitted 1952-53.

315. REGIONAL PHYSIOGRAPHY OF THE EASTERN HEMISPHERE. A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.

Two hours of lectures and two hours of laboratory weekly.

Through the year. Tu. Th., 9. MR. LOUGEE

Offered in alternate years. Omitted 1951-52.

361. URBAN GEOGRAPHY. The modern city from the viewpoint of geography.

Two hours. Through the year. Tu. Th., 11. MR. MURPHY

385. GEOGRAPHY OF EURASIA. Intensive survey of the continent and detailed study of selected regions.

Through the year. M. W., 2. MR. VAN VALKENBURG

Omitted 1951-52. To be omitted 1952-53.

387b. GEOGRAPHY OF THE PACIFIC AREA. A regional treatment of the human geography of the islands of the Pacific.

Offered when demand warrants. MR. MURPHY

391. CARTOGRAPHIC PRESENTATION OF THE GEOGRAPHICAL LANDSCAPE.

Through the year. F., 2:30 to 4:30. MR. RAISZ

399a. FIELD METHODS AND STUDIES. Required of every graduate student.

First three weeks of every year. THE STAFF

RESEARCH COURSES

(Under direction of proper staff members)

200. GEOGRAPHY IN EDUCATION.

310. REGIONAL PHYSIOGRAPHY.

320. CLIMATOLOGY.

330. SOILS GEOGRAPHY.

340. BIOGEOGRAPHY.

350. AGRICULTURAL GEOGRAPHY OR LAND UTILIZATION.

360. ECONOMIC GEOGRAPHY.

360b. URBAN GEOGRAPHY.

370. HUMAN GEOGRAPHY AND DEMOGRAPHY.

380. REGIONAL GEOGRAPHY.

390. POLITICAL GEOGRAPHY.

DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

During the academic year 1951-52 courses 12, 121a and 122b were given.

1. PRIMARILY FOR UNDERGRADUATES

12. GENERAL GEOLOGY. A course dealing with the origin of scenery, the classification and interpretation of rocks, the structure of the earth, the geography of the past, and the evolution of life.

Three recitations and one laboratory period at University or in field weekly. Attendance on one program of laboratory work in the field lasting two to four days is required.

Indivisible course.

Through the year. M. W. F., 8; Th. 2. MR. LITTLE

121a. CRYSTALLOGRAPHY, MINERALOGY, AND BLOWPIPE ANALYSIS. An elementary course on the identification of minerals by their geometrical, physical, and chemical properties. General geology is not a prerequisite for this course.

Half course. First semester. Two afternoon meetings weekly.

MR. LITTLE

122b. Economic Geology. A course dealing primarily with the origin of the deposits of useful minerals with some reference to their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable background for this course.

Geology 121 is a prerequisite.

Half course. Second semester. Two afternoon meetings weekly.

Mr. Little

DEPARTMENT OF GERMAN

Professor Arndt, Assistant Professor Edwards, Mr. Norton

REASONS FOR THE STUDY OF GERMAN

Nescire quid antea quam natus sis accideret, id semper est esse puerum.
Cicero (106-43 B.C.)

Not to know what came to pass before you were born, is always to remain a child.

Wer nicht von dreytausend Jahren
Sich weiss Rechenschaft zu geben,
Bleib im Dunkeln unerfahren,
Mag von Tag zu Tage leben.
Goethe (1749-1832)

Whoever cannot account to himself for 3000 years of time, let him live from day to day, an inexperienced man groping in the dark.

Many centuries of a carefully fostered tradition of study, meditation, and research for the advancement of human learning have made the German language a great storehouse of information for almost all branches of human knowledge, and the soul of one of the greatest of Western cultures. For the intellectually curious American of our time, whether he plans a career as scientist, philosopher, theologian, professional soldier, technician, educator or public servant, the study of German will provide an almost indispensable insight into the intellectual, psychic, religious, political, and economic life, especially of East and West Germany, Austria, and Switzerland, the crucial areas of past, present, and future international conflicts, and the home of thousands of American soldiers since almost a decade. As a command of the German language was considered one of the marks of an educated man in the time of the first flowering of New England, so it remains a most important study in our internationally far more complicated contemporary world.

DEPARTMENTAL OBJECTIVES

Out of an awareness of the important position of German areas for our country in peace or war, the Department of German offers a program of courses having the fourfold objective: 1. Facility in the use of the German language (10, 11, 12, 13, 132); 2. A comprehension of the outstanding cultural epochs in German history (141); 3. An integrated knowledge of the major German writers and thinkers (152, 153, 162); 4. An understanding of American and German relations in the past and present (200). Concentration in German as the mother tongue of the Central European geographical areas, provides an indispensable background for an intelligent understanding of American interests in Europe, for work in international relations, and in most scientific fields.

COMPREHENSIVE EXAMINATIONS AND MAJORS

For the time being the department will not require comprehensive examinations, but each major in the Department will be required to complete certain extra-curricular reading assignments given in a departmental reading list designed to aid the student in reaching the fourfold objective outlined above. All students wishing to major in German should see the head of the department before they register.

EXTRA-CURRICULAR ACTIVITIES

The department sponsors the following organizations:

THE GERMANIC SOCIETY, an organization of students which provides an informal meeting ground for all those interested in the German language and culture. Its programs are regularly announced on the bulletin board and in the student newspaper.

DELTA PHI ALPHA, a chapter of the national honorary German fraternity. Outstanding students of German who have demonstrated their interest in the German language and culture may be invited to become members of the fraternity upon the nomination of the department.

COURSES IN GERMAN

During the academic year 1951-52 the following courses were given: 11, 12, 13, 132, 141, 153, 162a.

Courses to be offered in 1952-53 will be announced in the Fall schedule and will be chosen from the following list of standard offerings according to the needs of the situation.

10a. INTRODUCTORY GERMAN. A basic course for beginners meeting six times a week through the first semester. It covers the material of German 11 in one semester and is offered for students wishing to major in German or desiring to complete the language requirement in German in the first semesters of college. Approval of head of the department is required before registration.
First semester. THE STAFF
Omitted 1951-52.

10b. INTERMEDIATE GERMAN. This course meets six times a week through the second semester and in this time covers the material of German 12. It is offered for potential majors in German or for students wishing to complete the language requirement in German in the early semesters of college. Approval of head of the department is required before registration.
Second semester. THE STAFF
Omitted 1951-52.

11. INTRODUCTORY GERMAN. The regular first year course in German meeting three times a week through the academic year. Study of pronunciation, vocabulary, elements of grammar, composition, and reading of suitable modern German prose.
Indivisible course.
Through the year. THE STAFF

12. INTERMEDIATE GERMAN. The regular second year course in German meeting three times a week through the academic year. Review of first year grammar, translation from and into German, exercises in written and oral composition, reading of modern German prose.
Prerequisite: German 11 or two years of high school German.
Indivisible course.
Through the year. THE STAFF

13. ADVANCED GERMAN. The regular third year course in German meeting three times a week through the academic year. This course completes the undergraduate language requirement in German. In the first semester: reading of advanced German prose. In the second semester students will be introduced to the reading of contemporary scientific and literary German journals and newspapers.

Prerequisites: German 10b or 12.

Through the year. THE STAFF

132. ADVANCED GRAMMAR AND COMPOSITION. Special course for majors in German and advanced non-majors. Advanced grammar, constant practice in writing German compositions and letters, study of modern prose and continued practice in the oral and written use of the language. May be offered to complete language requirement in German.

Prerequisites: German 10b or 12.

Indivisible course.

Through the year. Three times a week. MR. ARNDT

141. GERMANIC CIVILIZATION. An illustrated lecture course in English on the literature, history, and the fine arts of the German lands from the Holy Roman Empire to the present day, with special stress laid upon the Reformation, the Age of Enlightenment and the Classical Period.

Through the year. Three times a week. MR. EDWARDS

152. GERMAN LITERATURE FROM THE BEGINNING OF THE REFORMATION TO THE END OF THE CLASSICAL PERIOD. A survey of the German literary movements within this time and a study of their most important works.

Through the year. Three times a week. MR. ARNDT

Alternates with course 153. Omitted 1951-52.

153. GERMAN LITERATURE FROM THE BEGINNING OF THE ROMANTIC PERIOD TO THE PRESENT. A survey of the German literary movements within this time and a study of the most noteworthy works of this period.

Through the year. Three times a week. MR. ARNDT

Alternates with course 152. To be omitted 1952-53.

162b. THE FAUST LEGEND IN GERMAN LITERATURE. The work of the course centers around Goethe's *Faust* (both parts) as the highest poetic development of the Faust legend, but it also studies the developments of the Faust theme before and after Goethe.

Half course. Second semester. Three times a week. MR. ARNDT

Given as German 162a in 1951-52 with some variation in content.

200. GERMAN SEMINAR. For German majors in their senior year. The work of the seminar will vary from year to year according to the needs of the students.

Through the year. Three times a week. MR. ARNDT

COURSES NOT REGULARLY OFFERED

123. CONVERSATIONAL GERMAN.

142. GERMAN CLASSICS IN TRANSLATION.

161a. LYRIC POETRY. A survey of German lyric poetry.

HEALTH EDUCATION FOR UNDERGRADUATE WOMEN

HYGIENE. A study of the basic principles of physiology and anatomy and the principles of healthful living which will aid the student in developing attitudes and habits necessary for happiness and service in personal, family, and community life.

A required course for students in the Women's College, offered each academic year.

A non-credit course. First semester. Th., 12-1. MISS HUGHES

DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

Professor Lee, Professor Jordan, Associate Professor Hayden, Associate Professor Campbell, Assistant Professor Cohen,* Mr. Raeff, Mr. Dowling

UNDERGRADUATE WORK

In its undergraduate program the department offers basic courses in the fields of American, European, and British history, American and European government, and international relations. A major in this department may be taken in history, or goverment, or international relations.

General Education 14 must be taken as early as possible by majors in the department. Other courses primarily for undergraduates may be elected by non-majors who have not previously taken G. E. 14; and courses for advanced and graduate students may be taken by non-majors with the permission of the instructor if in his judgment the student has an adequate background for the course. Majors will normally take Economics 11 as well as G. E. 14 before the end of the sophomore year. Further elections in this and related departments are determined by the major's special interests, but are expected to include at least two upper class (2) courses in this department.

This department cooperates in the inter-departmental major programs in *English History and Literature* and *American Civilization* which are described at the beginning of the section "Departments and Courses" in this catalog, immediately after the introductory statements.

GOVERNMENT

The Department now offers sufficient courses for a major in government. In addition to the courses listed under that title, History 205 and 232a, Geography 10, Sociology 11, Philosophy 11, and Psychology 11 are possible electives. The choice of courses will depend upon the student's particular interest in the field of government and should be made after consultation with Mr. Cohen.

---

*Absent on leave 1951-52.

INTERNATIONAL RELATIONS

Attention is called to the inter-departmental major in International Relations, described at the beginning of the section "Departments and Courses" in this catalog, immediately after the introductory statements. The department's courses in the field of international relations are listed under both history and government.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis laid upon individual instruction and guidance by means of informal conferences between instructor and student, small classes, and seminars. The principal fields of graduate study are American, English and European history and politics, modern diplomacy, and the international relations of the United States, Europe, the British Empire, and the Far East.

The program for the degree of Master of Arts is worked out individually with each student. All are required to take the departmental seminar (History 30). For general requirements, see the announcement of the Graduate School.

For the doctorate, a candidate must present six fields of study, two of which are normally written off by approved courses or by written examinations, while four are tested in the preliminary oral examination. The doctoral dissertation is written in one of the six fields, designated as the special field. The final doctoral examination covers both the dissertation and the special field.

Reading courses are offered to meet the wants of individual students who need work which is not presented in regularly scheduled courses. Thesis courses provide guidance for those preparing theses or dissertations. These may be semester courses or year courses.

Attention is called to related work offered in the fields of geography and economics from which minor fields for both the master's and the doctor's degrees may be chosen. Note also the announcement of the Division of International Affairs.

COURSES IN HISTORY, GOVERNMENT, AND INTERNATIONAL RELATIONS

HISTORY

During the academic year 1951-52 the following courses were given: General Education 14, History 131, 21, 205, 211, 221, 231, 234a, 274b, 30, 311b, 314a, 331.

1. PRIMARILY FOR UNDERGRADUATES

GENERAL EDUCATION 14. EUROPE AND THE UNITED STATES SINCE 1500. For a complete description of this course, see *General Education.*

Required of all majors in the department.

Through the year. Tu. Th. S., 9.

12. HISTORY OF ENGLAND. Dealing primarily with British history since the fifteenth century this course forms a background for the study of American history and English literature.

Through the year. Tu. Th. S., 8. MR. JORDAN

Offered in alternate years. Omitted 1951-52.

131. INTRODUCTION TO UNITED STATES HISTORY. A survey from the age of discovery to the present, with emphasis upon political and economic developments.

Through the year. M. W. F., 10. MR. CAMPBELL

Offered in alternate years. To be omitted 1952-53.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

205a. INTRODUCTION TO POLITICAL PHILOSOPHY. A study of the main trends of Western political thought with reference to their underlying social, political and economic realities.

Half course. First semester. Tu. Th. S., 10. MR. JORDAN

Offered in alternate years. To be omitted 1952-53.

205b. RECENT POLITICAL THOUGHT. The conflicting ideologies of our time in their development since the French Revolution. Marxism, Fascism, and Nazism will be analyzed with especial reference to their challenge to liberal democracy.

Half course. Second semester. Tu. Th. S., 10. MR. JORDAN

Offered in alternate years. To be omitted 1952-53.

21. FOUNDATIONS OF MODERN EUROPE. Following an introductory survey of medieval history, the course will emphasize the Renaissance and Reformation to the second half of the 16th century. A brief summary of European political developments to 1648 will conclude the course.

Through the year. M. W. F., 10. MR. LEE AND MR. RAEFF
Offered in alternate years. To be omitted 1952-53.

210a. EUROPE, 1648-1830. The development of the modern European states after the Peace of Westphalia with emphasis upon the background, course, and consequences of the French Revolution.

Half course. First semester. Tu. Th. S., 10. MR. LEE
Offered in alternate years. Omitted 1951-52.

211. EUROPE SINCE 1830. The development of the major European nations with special emphasis on the period from 1870 to the present.

Through the year. Tu. Th. S., 11. MR. LEE
Offered in alternate years. To be omitted 1952-53.

22a. TUDOR AND STUART ENGLAND. A survey of the period from 1485 to 1688 with particular attention to the social backgrounds of English literature and to the conditions leading to colonization of America.

Half course. MR. JORDAN
Omitted 1951-52.

*221. ENGLAND SINCE 1760. A general course, stressing the political, economic and social development of the modern commonwealth.

Through the year. W. 2-4 ~~Tu. Th. S., 8.~~ MR. JORDAN
Offered in alternate years. To be omitted 1952-53.

225. HISTORY OF THE BRITISH EMPIRE. In the second semester the course will deal with developments and problems since 1900.

Through the year. Tu. Th. S., 10. MR. JORDAN
Offered in alternate years. Omitted 1951-52.

* 221. Offered in 1951-52 as seminar for graduate students only.

23a. AMERICAN COLONIAL HISTORY TO 1776. This will include the European backgrounds of American history with particular reference to England, and the political, economic, and social development of the colonies.

Half course. First semester. Tu. Th. S., 11. MR. CAMPBELL
Omitted 1951-52.

230. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. Beginning with a brief survey of the European background of American ideas and institutions, this course deals with the main currents in American thought and society from colonial times to the present.

Through the year. MR. CAMPBELL
Offered in alternate years. Omitted 1951-52.

231. ECONOMIC HISTORY OF THE UNITED STATES. See Economics 231, Department of Economics and Sociology.

MR. MAXWELL AND MR. CAMPBELL
Offered in alternate years. To be omitted 1952-53.

232a. CONSTITUTIONAL HISTORY OF THE UNITED STATES. Major emphasis is placed on the historical development and the present interpretations of our basic law.

Half course. First semester. Tu. Th. S., 10. MR. CAMPBELL
Offered in alternate years. Omitted 1951-52.

234a. AMERCAN DIPLOMATIC HISTORY. The history of the foreign relations of the United States from 1783 to the present.

Half course. First semester. M. W. F., 9. MR. HAYDEN
Offered in alternate years. To be omitted 1952-53.

235b. THE UNITED STATES IN THE TWENTIETH CENTURY. A study of the chief influences in American civilization since 1900, with special attention to the emergence of current social and economic problems.

Half course. MR. CAMPBELL
Omitted 1951-52.

274b. THE MODERN FAR EAST. The course deals primarily with international relations in the region since 1895.

Half course. Second semester. MR. HAYDEN

Offered in alternate years. To be omitted 1952-53.

281. HISTORY OF RUSSIA. From the origins of the Russian state to the present. Special attention is given to the development of Russian society and the ideological preparation of the Revolution.

Through the year. M. W. F., 10. MR. RAEFF

Offered in alternate years. Omitted 1951-52.

HONORS CONFERENCE. A course for honors candidates, in which emphasis is put upon student reports and discussion.

Through the year. M., 3-5. THE STAFF

3. PRIMARILY FOR GRADUATE STUDENTS

30. DEPARTMENT SEMINAR. Introduction to bibliography and methods of research, and discussion of research problems being investigated by graduate students and faculty.

Required of all first-year graduate students in the department.

Half course, through the year. W., 4-6. THE STAFF

311b. EUROPEAN INTELLECTUAL HISTORY. A study of currents of thought in the 19th century.

Half course. Second semester. MR. JORDAN AND MR. RAEFF

314. EUROPEAN INTERNATIONAL RELATIONS SINCE 1870. A study of the diplomatic history of Europe from the Franco-Prussian war to the Second World War.

Through the year. Th., 2-4. MR. LEE

Given in the first semester only 1951-52.

315. TOPICS IN EUROPEAN INTERNATIONAL RELATIONS. Some period after 1871 is chosen for study by means of individual research and reports.

Through the year. Th., 3-5. MR. LEE AND MR. JORDAN

Omitted 1951-52.

321a. England in the Twentieth Century. The development of the United Kingdom from the time of its greatest power to its present struggle to maintain a world position.
Half course. First semester. M., 4-6. Mr. Jordan
Omitted 1951-52.

331. Problems in the History of the United States since 1900. An analysis of the fundamental factors making for change in American economic and political thought at the turn of the century is followed by an intensive study of political developments.
Through the year. M., 2-4. Mr. Campbell

332. Introduction to Research in United States History. A study of the literature, sources, and principal problems.
Through the year. Tu. 2-4. Mr. Campbell
Omitted 1951-52.

GRADUATE READING AND THESIS COURSES

31. 310.	Reading Thesis	In the History and International Relations of Europe.	Mr. Lee
32. 320.	Reading Thesis	In the History and International Relations of England and the British Empire.	Mr. Jordan
33. 330.	Reading Thesis	In the History of the United States.	Mr. Campbell
38. 380.	Reading Thesis	In Early Modern and Slavic History.	Mr. Raeff

GOVERNMENT

During the academic year 1951-52, the following courses were given: Government 15, 24, 240, 252a, and 25b.

1. PRIMARILY FOR UNDERGRADUATES

15. Introduction to Government. After a consideration of the origin and theories of the state, the structure and functions of American government are studied, with some attention to the problems of modern administration.
Through the year. M. W. F., 12.
Mr. Dowling, assisted by Miss Johnson

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

24. INTERNATIONAL RELATIONS. International rivalries in the 20th century examined, with attention to supposed or genuine national interests. Their worldwide nature is emphasized, and the failure of past efforts to establish order analyzed as a basis for estimating the practicality of modern policies and proposals.
Through the year. M. W. F., 11. MR. HAYDEN

240. SEMINAR IN INTERNATIONAL RELATIONS. Group study of certain problems in contemporary affairs. Required of seniors in the international relations major; not open as an elective except to properly qualified graduate students with the instructor's permission.
Through the year. Tu., 3-5, and conferences. MR. HAYDEN

241. INTERNATIONAL LAW AND ORGANIZATION. A survey of historic doctrines of international law and their application to modern conditions is followed by a study of the various institutions created to handle international economic, social, and political problems, especially those concerned with the pacific settlement of disputes and the establishment of world order.
Through the year. M. W. F., 9. MR. HAYDEN
Offered in alternate years. Omitted 1951-52.

25b. COMPARATIVE GOVERNMENT. The governments and politics of Great Britain and the major European powers.
Half course. Second semester. M. W. F., 10. MR. DOWLING
Offered in alternate years. To be omitted 1952-53.

251a. AMERICAN POLITICAL PARTIES. A study of the functioning of American party organizations, pressure groups, and the electorate in American politics. Emphasis is placed upon current problems and trends in the field.
Half course. First semester. M. W. F., 10. MR. COHEN
Offered in alternate years. Omitted 1951-52.

252a. INTRODUCTION TO PUBLIC ADMINISTRATION. An introductory examination of the role of administration in modern government, including problems of personnel administration, fiscal management, administrative regulation, and government organization.

Half course. First semester. M. W. F., 10. Mr. Dowling
Offered in alternate years. To be omitted 1952-53.

3. PRIMARILY FOR GRADUATE STUDENTS

341. International Relations Seminar. A study of contemporary problems by means of student research and reports.

Through the year. Tu., 4. Mr. Hayden
Omitted 1951-52.

351. Problems in American Government. A study primarily by means of student research and discussion of selected contemporary problems in American government, including the legislative process, public opinion, and political parties.

Through the year. Tu., 2-4. Mr. Cohen
Omitted 1951-52.

GRADUATE READING AND THESIS COURSES

34. Reading } In International Relations.
340. Thesis } Mr. Hayden

35. Reading } In American and Comparative Government and Politics.
350. Thesis } Mr. Dowling

INTER-DEPARTMENTAL MAJORS

A description of the inter-departmental majors will be found at the beginning of the section "Departments and Courses" in this catalog, immediately after the introductory statements.

DEPARTMENT OF MATHEMATICS

Professor Bumer, Assistant Professor Stubbe, Assistant Professor Gorenstein

The department of mathematics offers courses leading to an undergraduate major in mathematics, courses necessary for the study of the physical sciences and courses for the student who wishes to learn about the fundamental concepts of mathematics primarily for their cultural value. Some of the courses offered are for advanced undergraduates and graduate students.

Courses 11, 12, 13 and 214 form the basis of a major in mathematics and are important for the study of the physical sciences. A major in mathematics normally includes one or two courses in mathematics in addition to the four courses above and two or three courses in an allied field of study such as physics, chemistry or philosophy.

Courses in Mathematics

During the academic year 1951-52 the following courses were given: G.E. 110, Mathematics 11, 12, 13, 214, 215, 216, 17 and B.A. 13.

1. PRIMARILY FOR UNDERGRADUATES

11. Freshman Mathematics. Course 11 has for prerequisites one course in algebra and one course in plane geometry taken in the secondary schools, although at least three courses in secondary school mathematics are advisable. Careful attention is given to fundamental concepts and to the development of useful techniques. Topics in algebra, trigonometry and analytic geometry are introduced.

A qualified student may request permission to take an attainment test in the subject matter of course 11. If he passes such a test he may enter course 12.

Through the year, M. W. F., 8; Tu. Th. S., 8 and 9.

Mr. Stubbe, Mr. Gorenstein

12. CALCULUS. Course 12 introduces both the differential and integral calculus and is essential to further work in mathematics as well as to work in the natural sciences.
Prerequisite: Course 11 or its equivalent.
Through the year. M. W. F., 10. MR. GORENSTEIN

13. INTERMEDIATE CALCULUS AND DIFFERENTIAL EQUATIONS. This course includes a discussion of geometric and physical applications of integration; sequences and series; partial differentiation and double integration. Also, ordinary differential equations, with emphasis on the principal types of first and second order equations. Applications to geometry, physics, chemistry, and mechanics are stressed.
Prerequisite: Course 12.
Through the year. Tu. Th. S., 9. MR. STUBBE

17. MATHEMATICAL STATISTICS. Topics discussed include frequency distributions, moments, tests of significance, correlation, theory of large and small sampling. Although numerous applied problems are worked out in detail by the students, emphasis is placed on the mathematical theory.
Prerequisite: Course 12.
Through the year. M. W. F., 8. MR. BUMER
Offered in alternate years. To be omittted 1952-53.

19a. ADVANCED ANALYTIC GEOMETRY. The course includes the study of planes and lines, transformation of coordinates, matrices, determinants and vector analysis.
Prerequisite: Course 12.
Half course, first semester. M. W. F., 9.
Offered in alternate years. Omitted 1951-52.

19b. PROJECTIVE GEOMETRY. The following topics are studied: homogeneous coordinates, principle of duality, linear transformations, cross ratio, curves and surfaces of the second order and second class.
Prerequisite: Course 19a.
Half course. Second semester. M. W. F., 9.
Offered in alternate years. Omitted 1951-52.

General Education 110. Fundamental Concepts of Elementary Mathematics.

For description of this course, see courses listed under General Education.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

214. Advanced Calculus. The following topics are among those studied: complex numbers, partial differentiation, infinite series, vector analysis, multiple and line integrals. Some emphasis is placed on the uses to which the topics can be put in the sciences and engineering.

Prerequisite: Course 12.
Through the year. Tu. Th. S., 11. Mr. Stubbe

215. Modern Algebra. The course affords an introduction to modern algebraic systems: groups, integral domains, rings, fields, abstract vector spaces, matrices and related topics. The emphasis is on developing in the student the modern axiomatic point of view, with considerable attention given to the nature and construction of formal proof.

Prerequisite: Course 12.
Through the year. M. W. F., 11. Mr. Gorenstein
Offered in alternate years. To be omittted 1952-53.

216a. Introduction to Complex Variables. The course affords an introduction to analytic functions, line integrals, conformal mapping. Considerable attention is given to rigor and many examples are studied to illustrate applications.

Prerequisite or taken concurrently: Course 214.
Half course. First semester. M. W. F., 12. Mr. Bumer
Offered in alternate years. To be omittted 1952-53.

216b. Advanced Differential Equations. Some partial differential equations of mathematical physics, Fourier Series and boundary value problems, systems of ordinary differential equations are studied.

Prerequisite: Course 13.
Half course. Second semester. M. W. F., 12. Mr. Bumer
Offered in alternate years. To be omittted 1952-53.

218. INTRODUCTION TO ANALYSIS. The following topics are studied: the structure of the real number system, algebra of sets, cardinality, sequences and series and certain theorems concerning functions of a real variable. An introduction is made to the study of measure and the Lebesgue integral.

Prerequisite: Course 12.

Through the year. M. W. F., 12.

Offered in alternate years. Omitted 1951-52.

DEPARTMENT OF PHILOSOPHY

PROFESSOR JEFFERSON, MR. BECK

The Department of Philosophy offers courses designed to broaden the student's perspective and help him trace the relations among the various fields of knowledge. These courses may also form the basis of a major in philosophy.

A major in this department consists of four courses in philosophy and three additional courses in related fields. The specific courses in related fields are determined in the light of the students' special interests.

COURSES IN PHILOSOPHY

During the academic year 1951-52 the following courses were given: 11a, 11b, 12, 13a, 14, 15b; also Education 290.

PHILOSOPHY 11a. LOGIC AND SCIENTIFIC METHOD. The principles of valid reasoning and inductive methods; the application of these principles and methods to the problems of the natural and social sciences, and the consideration of the relation between logic and problems of value.

Open to freshmen.

Half course. First semester. Tu. Th. S., 11. MR. BECK

PHILOSOPHY 11b. PROBLEMS OF PHILOSOPHY. The nature and method of philosophy. The application of philosophical method to contemporary personal and social problems. A detailed analysis of some typical problems in the various fields of philosophy.

Open to freshmen.

Half course. Second semester. Tu. Th. S., 11. MR. BECK

PHILOSOPHY 12. HISTORY OF PHILOSOPHY. The movements of philosophical thought from the early Greeks to the present day. First semester: Greek and Medieval Philosophy. Second semester: Modern Philosophy.

Not open to freshmen.

Divisible course, with consent of the instructor.

Three hours, through the year. Tu. Th. S., 9. MR. JEFFERSON

PHILOSOPHY 13a. PROBLEMS OF ETHICS. A constructive study of important ethical theories. Designed to acquaint the student with the problems and scope of ethics, and to aid him in the formulation of an ethical outlook.

Open to juniors and seniors.

Half course. First semester. Tu. Th. S., 10. MR. BECK

PHILOSOPHY 13b. SOCIAL PHILOSOPHY. A critical and comprehensive study of the principles underlying social structure and functions. The examination of the goals, purposes, norms, and ideals of social process, and the relation of that process to the individual good.

Open to juniors and seniors.

Half course. Second semester. Tu. Th. S., 10. MR. BECK

Omitted 1951-52.

PHILOSOPHY 14. CONTEMPORARY PHILOSOPHY. An intensive study of important thinkers representative of modern developments in philosophy, together with emphasis on the historical roots of their thought.

Prerequisite: One and one half courses in philosophy, including Philosophy 12; or permission from the instructor.

Divisible course, through the year.

Tu. Th., 2. MR. BECK

PHILOSOPHY 15b. TYPES OF RELIGIOUS PHILOSOPHY. A study of the religious ideas and ideals of Western civilization and their embodiment in specific religious institutions.

Open to juniors and seniors.

Half course. Second semester. Tu. Th. S., 10.

MR. JEFFERSON AND MR. BECK

See also EDUCATION 290b, PHILOSOPHY OF EDUCATION in the announcement of the Department of Education.

DEPARTMENT OF PHYSICS

Professor Roope,* Associate Professor Gunter,
Visiting Lecturer Ballan

UNDERGRADUATE WORK

The department offers fundamental courses required in preparation for the study of chemistry, biology, meteorology and allied sciences, medicine, dentistry, engineering and science teaching, as well as courses leading to professional or graduate work in physics.

The requirement for a major in physics consists of Physics 11, two courses from Physics 15, 16, 17, 18, 124, either Physics 22 or 23, Mathematics 11 and 12, and Chemistry 11. In addition to electives in Physics, Mathematics 13 and 14 and Chemistry 19 are desirable. Students preparing for graduate work should also obtain a good reading knowledge of French and German while in college.

Physics 11 or its equivalent is the normal prerequisite for all other courses in the department. Courses numbered 15 or higher, except 17 and 124, require the use of calculus and should not be elected without consulting the instructor in charge. Courses 15 and 17 each require a limited amount of laboratory work to be done at the discretion of the instructor and at such times as will not interfere with regularly scheduled courses.

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board to work leading to the degree of Master of Arts.

Courses in Physics

During the academic year 1951-52 the following courses were given: 11, 15, 16, 17, 23, 217, 300.

During the academic year 1952-53 the following undergraduate courses will be offered: General Education 10, 11, 17, 18a, 18b, 124, 22.

---

*Absent on leave, second semester 1951-52.

PRIMARILY FOR UNDERGRADUATES

GENERAL EDUCATION 10. AN INTRODUCTION TO PHYSICAL SCIENCE. For description of this course see courses listed under General Education.

11. GENERAL PHYSICS. Mechanics, heat, electricity and magnetism, wave motion, sound, and light.
Indivisible course.
Open to freshmen.
Through the year. Tu. Th. S., 8; M. or Th., 2. MR. GUNTER

13. HISTORY OF PHYSICS. MR. ROOPE
Omitted 1951-52.

15. HEAT AND THERMODYNAMICS. This course includes a study of thermometry, calorimetry, the thermal properties of matter in the solid, liquid and gaseous states, the laws of thermodynamics, and applications to a wide range of phenomena.
Prerequisites: Physics 11 and Mathematics 12.
Through the year. M. W. F., 11. MR. ROOPE

16. OPTICS. The first semester is devoted to a study of the principles of geometrical optics and their application to various optical instruments, including ground and aerial cameras. The second semester is devoted to the principles and application of physical optics.
Prerequisites: Physics 11 and Mathematcs 12 (may be taken concurrently).
Through the year. Tu. Th. S., 9. Tu. or Th., 2. MR. GUNTER

17. INTRODUCTION TO MODERN PHYSICS. An elementary treatment of physical experiment and theory of the past fifty years including the more recent atomic and nuclear developments.
Through the year. M. W. F., 9. MR. ROOPE

18a. THEORETICAL SPECTROSCOPY. The origin of line and band spectra in both emission and absorption spectrophotometry is treated.
Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently). Physics 16 and 17 are desirable but not required.
Half course. First semester. Tu. Th. S., 9. MR. GUNTER
Omitted 1951-52.

18b. EXPERIMENTAL SPECTROSCOPY. The theory and applications of the optical and electrical instruments used in an experimental spectroscopy are discussed. The student will become familiar with the use of prism and grating spectrographs, micro-densitometers, interferometers, and their associated photographic and electrical techniques. The principles of spectrochemical analysis are included in this course.

Prerequisites: Physics, 16 or Physics 18a, and Mathematics 12 (may be taken concurrently). Physics 17 is desirable but not required.

Half course. Second semester. Tu. 9; Tu. Th., 2. MR. GUNTER

Omitted 1951-52.

124. FUNDAMENTALS OF ELECTRONICS. This is a first course in electronics designed to give a broad, largely non-mathematical, background for the understanding of electron tubes and their associated circuits. The application of modern electronic devices to the fields of physics, chemistry, biology, meteorology, and navigation is discussed.

Prerequisite: Mathematics 11.

Through the year. Tu. Th. S., 10; Tu. or Th., 2. MR. GUNTER

Omitted 1951-52.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

22. THEORETICAL MECHANICS.

Prerequisite: Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. M. W. F., 11. MR. ROOPE

Omitted 1951-52.

23. ELECTRICITY AND MAGNETISM. The fundamental laws of electric and magnetic circuits and fields are treated. The elements of electromagnetic wave propagation and their application to antenna design are included in this treatment.

Prerequisites: Physics 11 and Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. Tu. Th. S., 10; Tu. or Th., 2. MR. GUNTER

24. Advanced Electronics. This course is a detailed theoretical study of certain electronic phenomena from a mathematical point of view.

Prerequisites: Physics 23 and Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. Tu. Th. S., 11. Mr. Gunter
Omitted 1951-52.

25. Honors Course. Theoretical and/or experimental work in mechanics, thermodynamics, or nuclear physics. Mr. Roope

26. Honors Course. Theoretical and/or experimental work in optics, electronics, or spectroscopy. Mr. Gunter

217. Nuclear Physics. Mr. Roope

3. PRIMARILY FOR GRADUATE STUDENTS

31. Theoretical Physics. Double course. Mr. Roope

300. Research in Experimental Physics. The Staff

301. Research in Theoretical Physics. The Staff

DEPARTMENT OF PSYCHOLOGY

Professor Werner, Professor Affiliate Weinreb, Associate Professor Bell, Associate Professor Alper, Associate Professor Wapner, Associate Professor Affiliate Meyer, Associate Professor Affiliate Phillips, Associate Professor Affiliate Wyatt, Assistant Professor Gwinn, Visiting Lecturer Klein, Visiting Lecturer Sperry

The psychological laboratories at Clark University were established by G. Stanley Hall immediately after the founding of the University, and constituted one of the first adequately appointed laboratories in this field in America. These laboratories increased rapidly in size and in research possibilities for experimental psychology, and have been remodeled in accordance with present needs. From the outset this research emphasis on experimental psychology was supplemented by work in child study, educational psychology, and mental hygiene. In recent years a comprehensive training program in clinical psychology has been added. Broad integrated training in psychology is stressed, with special concentration being provided in the areas of child and genetic, clinical, and general experimental psychology.

UNDERGRADUATE WORK

The undergraduate curriculum is designed to meet the needs of: (1) students majoring in psychology; (2) majors in related field; (3) students wishing an orientation to the field of psychology for general cultural development.

Psychology 11a and 11b are prerequisite to all subsequent courses, with the exception of Psychology 190b. Majors are required to take Psychology 11a, 11b, and Psychology 212. Students preparing for graduate work should obtain a reading knowledge of French and German.

GRADUATE WORK

Work is offered in the department leading to the degrees of Master of Arts and Doctor of Philosophy. In order to be admitted to the department for a higher degree, the applicant must have a bachelor's degree based upon a distinguished college record. Where the department feels that a student lacks the necessary undergraduate preparation in psychology and related fields, specific courses of study will be prescribed.

THE DEGREE OF MASTER OF ARTS. To qualify for the degree of Master of Arts in psychology the student must demonstrate competence in representative areas of psychology. The customary program is five courses, including experimental psychology, statistical methods, and three additional courses supplemented by the writing of a thesis in the area of special interest.

THE DEGREE OF DOCTOR OF PHILOSOPHY. Only students who give evidence of high scholastic attainments will be encouraged to proceed to the degree of Doctor of Philosophy. The obtaining of a Master of Arts degree does not automatically admit the student to the doctoral program. The general requirements for the doctor's degree, other than those for specialization in clinical psychology, include the following. The student is required to pass with distinction five courses during the first year of graduate study and a minimum of two courses during the second year of study. At the end of the second year he is required to demonstrate his competence in psychology by passing with distinction preliminary examinations in the field of psychology as a whole and in an area of specialization. At the present time examinations in the general field include history and systems of psychology, experimental psychology, genetic psychology, learning, normal and abnormal personality, and statistics. In addition, the student is required to demonstrate his ability to conduct independent research as evidenced by the presentation of an acceptable thesis. For formal thesis requirements and language requirements, see the general statement concerning advanced degrees in the section of this catalog headed "The Graduate School". At a final oral examination a student is required to defend his thesis and to show his competence in the general field of psychology and in his special area of concentration.

THE PROGRAM IN CLINICAL PSYCHOLOGY. The department offers a four-year program in clinical psychology leading to the degree of Doctor of Philosophy. For this degree the same standards of proficiency in the general field of psychology as mentioned above apply.

In addition the student will be required to demonstrate mastery of the use of clinical methods. Provision is made for a wide variety of practical experiences in cooperating institutions, clinics, and agencies. V. A. and U. S. Public Health Service Training Stipends are available for outstanding students.

A minimum of one year of internship, or its equivalent, is included in this four-year program. Among the institutions and agencies cooperating in providing practicum and research facilities are: Bedford V. A. Hospital; Boston V. A. Mental Hygiene Clinic; Camp Wideko; Children's Hospital, Boston; Clark University Psychological Clinic; Cushing V. A. Hospital; Hartford V. A. Mental Hygiene Clinic; Newington V. A. Mental Hygiene Clinic; Northampton V. A. Hospital; Family Service Organization of Worcester; Worcester Boys' Club; Worcester Girls' Club; Worcester

Youth Guidance Center; Worcester State Hospital; and certain schools. Internships may be arranged in other selected hospitals and clinics.

During the first two years the student will include in his program courses basic to a thorough understanding of psychology as well as specialized courses in clinical psychology. He will be required to take the regular preliminary examinations; in this case the examination in the area of specialization will be in clinical psychology.

Research for the dissertation should normally be started during the year of internship and be completed during the fourth year at the University.

In light of the costs of supervision and other special services in connection with instruction in the clinical psychology program, the tuition is $500 per academic year in this program.

COURSES IN PSYCHOLOGY

During the academic year 1951-52, the following courses in psychology were given: 11, 170a, 172b, 190b, 199a, 200b, 203a, 203b, 209, 212, 215b, 301a, 301b, 303a, 303b, 305, 306b, 307, 313b, 315a, 317, 318a, 318b, 325b, 327b, 330a, 331, 339, 340, 346b, 349a, 350, 361a, 361b, 363a, 366b.

1. PRIMARILY FOR UNDERGRADUATES

11a. General Psychology. An introduction to the principles of human behavior.

Half course. First semester. Tu. Th. S., 10. Mr. Wapner

11b. General Psychology.

Prerequisite: Psychology 11a.

Half course. Second semester. Tu. Th. S., 10. Mr. Wapner

170a. Introduction to Child Psychology. An introductory course in child psychology with special emphasis on factors affecting the social development of the young child.

Prerequisite: Psychology 11a.

Half course. First semester. M. W. F., 12. Mrs. Alper

172b. Personality Development. This course will deal with a number of the determinants of personality formation including constitutional determinants and culturally imposed factors. Current theories of personality development will be discussed and applied to the study of personality.

Half course. Second semester. M. W. F., 12. Mrs. Alper

190b. Applied and Industrial Psychology. The application of psychological techniques to the problems of business and industry.

Prerequisite: Psychology 11a.

Half course. Second semester. To be arranged.

199a. Learning and Motivation. The role of learning and motivation in behavior.

Half course. First semester. Tu. Th. S., 10. Mr. Gwinn

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200b. Social Psychology. The role of social factors in the behavior of individuals and of groups. Among the topics to be discussed are suggestion, attitudes, rumor, prejudice, leadership and public opinion polls. Laboratory sections will be devoted to demonstrations of some of these factors.

Half course. Second semester. M. W., 10.; F., 2-4. Mrs. Alper

203a. The Abnormal Personality. The course will be devoted to a study of the development of the abnormal personality and a survey of the major types of abnormal behavior.

Prerequisite: Psychology 172b.

Half course. First semester. M. W., 1:30-3. Mr. Bell

203b. Introduction to Clinical Psychology. A survey of the theoretical background of the field of clinical psychology.

Prerequisite: Psychology 203a.

Half course. Second semester. M. W., 1:30-3. Mr. Bell

209. DEVELOPMENTAL AND CHILD PSYCHOLOGY. A survey of the principles of development and the problems of child psychology.

Prerequisite: Psychology 11 plus one additional semester course in psychology.

Through the year. W. F., 9. A third hour to be arranged.

MR. WERNER

212. EXPERIMENTAL PSYCHOLOGY. A general survey of experimental psychology with the aim of acquainting the student with scientific methods and laboratory technique.

Through the year. Lecture: Tu. Th., 11.

Laboratory: Section A: Tu., 1:30-5.
Section B: Th., 1:30-5. MR. WAPNER

215b. PHYSIOLOGICAL PSYCHOLOGY. Physiological methods of investigating the mechanisms underlying psychological processes.

Half course. Second semester. Tu. Th. S., 10. MR. GWINN

3. PRIMARILY FOR GRADUATE STUDENTS

300. GENETIC PSYCHOLOGY. A seminar on the basic principles of genetic psychology.

Through the year. Th., 9-11. MR. WERNER

Omitted 1951-52.

301a. PSYCHOLOGICAL DIAGNOSIS OF CHILDREN. Introduction to problems and methods.

First semester. Tu., 2-4. MISS MEYER

301b. DIAGNOSIS OF PERSONALITY. Introduction to the methods of personality diagnosis.

Second semester. M., 5:15-7:15. MR. BELL AND MR. WYATT

303a. DIAGNOSIS OF PERSONALITY (Advanced Course).

Prerequisites: Psychology 301a and 301b.

First semester. W., 5:15-7:15. MR. BELL AND MR. WYATT

303b. THEORIES OF PSYCHOTHERAPY. A comparative study of basic theories of psychotherapy.

Prerequisite: Psychology 303a.

Second semester. W., 3-5. MR. BELL

305. ADVANCED EXPERIMENTAL PSYCHOLOGY. A study of experimental methodology and techniques. In the first semester attention will be given to problems of perception, and, in the second semester, to memory, concept formation and reasoning.

Through the year. Lecture: Th., 9-11. MR. WERNER
Laboratory: To be arranged. MR. WERNER and MR. WAPNER

306b. PSYCHOLOGICAL DIAGNOSIS OF CHILDREN, advanced course. Special problems and case studies.

Second semester. Tu., 2-4. MRS. SPERRY

307. PARTICIPATION IN PSYCHOLOGICAL CLINIC.

Required of students in Psychology 317.

Through the year. F., 9:30-11:30. MRS. ALPER, MR. BELL, and CONSULTANT PSYCHIATRIST

313. STATISTICAL METHODS. The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in psychological research.

Through the year. W., 4-6. MR. JONES
Offered in the second semester only 1951-52.

314b. EXPERIMENTAL SOCIAL PSYCHOLOGY. A laboratory course in which the principles of scientific investigation are applied to problems in social psychology. In addition to performing a number of standard experiments in social psychology students will also do original research. Areas of experimentation will include topics such as suggestion, the measurement of attitudes, group vs. individual thinking, rumor and opinion polling.

Second semester. W., 1:30-3:30. MRS. ALPER
Offered in alternate years. Omitted 1951-52.

315a. EXPERIMENTAL METHODOLOGY AND DESIGN. A consideration of general experimental methodology in psychology with special reference to the problems of research planning and experimental design. Various fields will be drawn upon for illustrations.

First semester. W., 3:15-5:15. MR. WAPNER

317. Methods of Psychotherapy. The course includes a study of various methods of psychotherapy and their application to actual cases.

Through the year. F., 11:30-1:30. Mr. Weinreb

318. Dynamics of Personality. Emphasis will be placed on the dynamics common to both normal and abnormal manifestations of personality defenses. The first part of the course will consist of a consideration of normal personality development and personality theory. The latter part will be devoted to a survey of the main types of abnormal behavior, including psychoses, psychoneuroses, psychosomatic disorders, character disorders, hypnosis, and allied phenomena.

Through the year. First semester, W., 1:15-3:15. Second semester, F., 4-6. Mrs. Alper, first semester
Mr. Phillips, second semester

319b. Experimental Dynamic Psychology. A laboratory course in which the principles of scientific investigation are applied to problems in dynamic psychology. In addition to performing a number of standard experiments students will also do individual research.

Second semester. W., 1:30-3:30. Mrs. Alper
Offered in alternate years. Omitted 1951-52.

325b. Culture and Personality. Discussion of selected studies dealing with the interrelationship of personality with the problems and trends of contemporary culture. Case material will be used for illustration.

Second semester. M., 7-9. Mr. Wyatt
Offered in alternate years. To be omitted 1952-53.

327b. Personality Dynamics, Advanced Course. The implications of personality theory for clinical methodology and research.
Open only to third and fourth year graduate students.

Second semester. To be arranged. Mr. Klein

330a. PSYCHOLOGY OF LANGUAGE BEHAVIOR. A seminar on basic problems pertinent to the experimental study of language.

Half course. First semester. F., 8-10 P.M. MR. WERNER
To be omitted 1952-53.

331. THE PSYCHOLOGY OF LEARNING. Theoretical viewpoints and experiments in the field of learning.

Through the year. F., 2-4. MR. GWINN

335b. SOCIAL PSYCHOLOGY. Topics to be considered in this course are: Opinion Research; Propaganda, Rumor; Group Dynamics; Orientation and Theoretical Problems in Social Psychology.

Second semester. Tu., 7:30-9:30 P.M. VISITING LECTURERS
Offered in alternate years. Omitted 1951-52.

339. HISTORY AND SYSTEMS OF PSYCHOLOGY. The historical development of psychological methods, concepts and theories.

Through the year. W., 9-11. MR. GWINN

340. DEPARTMENTAL COLLOQUIUM.

THE STAFF, GRADUATE STUDENTS AND VISITING SPEAKERS

345. SEMINAR IN CURRENT PSYCHOLOGICAL LITERATURE.

Through the year. Tu., 7-9. STAFF OF THE DEPARTMENT
Omitted 1951-52.

346b. CURRENT LITERATURE IN PERCEPTION AND COGNITION. Second semester. To be arranged.

MR. WERNER AND MR. WAPNER

349a. CLINICAL RESEARCH METHODOLOGY. A survey of current research methods in clinical psychology.

First semester. F., 4-6. MR. PHILLIPS

350. RESEARCH IN PSYCHOLOGY. Individual direction of students in their research projects. STAFF OF THE DEPARTMENT

FIELD WORK COURSES IN CLINICAL PSYCHOLOGY

(Hours to be arranged)

361a. REQUIRED IN CONJUNCTION WITH 301a. MISS MEYER

361b. REQUIRED IN CONJUNCTION WITH 301b.
MR. WYATT AND MR. BELL

363a. REQUIRED IN CONJUNCTION WITH 303a.
MR. WYATT AND MR. BELL

366b. REQUIRED IN CONJUNCTION WITH 306b. MRS. SPERRY

NON-CREDIT WORKSHOPS

1. ADVANCED WORKSHOP IN PSYCHOLOGICAL STATISTICS: Selected problems in small sample theory.
VISITING LECTURERS

2. WORKSHOPS IN CLINICAL METHODOLOGY.
VISITING LECTURERS

3. LECTURES ON PHYSIOLOGICAL AND MEDICAL ASPECTS OF MIND-BODY RELATIONSHIPS.
WORCESTER STATE HOSPITAL STAFF MEMBERS
AND VISITING LECTURERS

DEPARTMENT OF ROMANCE LANGUAGES

Associate Professor Reid, Associate Professor Nicol,
Assistant Professor King,* Assistant Professor Ramsey,
Mr. MacQueen, Mr. Luce

Courses offered in the languages and literatures of France, Spain, and Spanish America have been planned to provide:

1) an adequate foundation for graduate study or teaching either French or Spanish, or both;
2) an extensive reading knowledge of both languages, essential for carrying on advanced study in natural sciences, social sciences, and the humanities, and for fulfilling the language requirement for the degree of Bachelor of Arts;
3) a competent speaking knowledge of both languages.

A major in Romance languages must comprise:

1) four full courses to be chosen from the following:
    French 13, 114, 123b, 125, 126
    Spanish 13, 114, 115, 123b
    Romance Languages 124a
2) French 113 or the equivalent.
3) General Education 14, or the equivalent, to be completed by the end of the sophomore year.
4) at least one course, to be approved by the department, in non-Romance literature.

Students majoring in Romance languages are expected to acquire a thorough knowledge of either French or Spanish and a competent knowledge of the other, both in language and in literature.

If at least two units of elementary Latin or elementary Greek have not been accepted for admission to college, a Romance language major must satisfy the classics requirement as prescribed under the heading "Major" in the statement of requirements for the degree of Bachelor of Arts.

Students intending to major in Romance languages should consult Mr. Reid.

---

*Absent on leave 1951-52.

A program leading to a degree "with honors in Romance languages" is available to qualified upperclassmen.

COURSES IN FRENCH

During the academic year 1951-52 the following courses in French were given: 11, 12, 13, 14, 113, 114 and 125.

1. PRIMARILY FOR UNDERGRADUATES

11. ELEMENTARY. For beginners. The elements of grammar and pronunciation; extensive, carefully graded reading; exercises in speaking and writing simple French.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 10; Tu. Th. S., 11.

MR. MACQUEEN AND MR. LUCE

12. INTERMEDIATE. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading in a variety of modern texts.

Prerequisite: French 11 or the equivalent, to be determined by a placement test.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 12; Tu. Th .S., 8. MR. MACQUEEN

13. THIRD-YEAR ORAL AND WRITTEN FRENCH. A rapid intensive review of grammar; the elements of phonetics; exercises in composition and pronunciation; conversational practice. Course 13 is conducted largely in French.

Prerequisite: Grade of B— or higher in French 12, or equivalent skill in the language, to be determined by a placement test. Admission is subject to the approval of the instructor.

Open to freshmen.

Through the year. W. F., 9; laboratory M., 1-3. MR. REID

14. READINGS IN FRENCH LITERATURE. The aim of French 14 is two-fold: the attainment of facile reading ability and the appreciation of at least ten works selected from various periods and chosen for their literary excellence and universal appeal.

Prerequisite: French 12 or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. M. W. F., 8 and 11; Tu. Th. S., 11. MR. REID

113. INTRODUCTION TO FRENCH CIVILIZATION. A selective survey of the history, art, literature and music of France, from the Middle Ages to the present time. An elementary reading knowledge of French is desirable but not required. Admission is subject to the approval of the instructor.

French 113 may be counted in fulfillment of the general requirement in art, music and literature, but not toward fulfillment of the requirement in foreign language.

Some meetings are held in the Worcester Art Museum.

Through the year. M. W. F., 10. MR. NICOL

Offered in alternate years. To be omitted 1952-53.

114. GENERAL VIEW OF FRENCH LITERATURE. An interpretation of the main currents of French literature from the beginnings of writing in the vernacular to the present day. Each period will be studied by concentrating attention on a limited number of works and authors best bringing to focus the characteristics of the period.

Prerequisite: Grade of B— or higher in French 13 or 14 or the equivalent.

Through the year. Tu. Th. S., 10. MR. NICOL and MR. MACQUEEN

125. PRINCIPAL PROSE GENRES. Detailed study of the novel, the short story and the essay, as exemplified by the chief works in each genre from the Middle Ages to the present. Some attention will also be given to the writers of maxims, memoirs and letters. Conducted in French.

Prerequisite: Grade of B— or higher in French 114 or the equivalent.

Through the year. Tu. Th. S., 9. MR. NICOL

Offered in alternate years. To be omitted 1952-53.

126. Poetry and Drama. Intensive study of the principal monuments of each genre, from the Middle Ages to the present. Conducted in French.

Prerequisite: Grade of B– or higher in French 114 or the equivalent.

Through the year. Tu. Th. S., 9. Mr. Nicol
Offered in alternate years. Omitted 1951-52.

123b. Advanced Language. Advanced composition and special study of grammatical topics.

Prerequisite: Grade of B– or higher in French 13. Romance Languages 124a is desirable but not required

Half course. Second semester. Mr. MacQueen
Offered when the demand warrants.

Romance Languages 124a. Comparative French and Spanish Phonetics. The elements of general phonetics. A detailed study of the pronunciation of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: Grade of B– or higher in French 13 or Spanish 13.
Half course. First semester. M. W., 10; laboratory F., 1 to 3.
Mr. Reid
Offered in alternate years. Omitted 1951-52.

Courses in Spanish

During the academic year 1951-52 the following courses were given: 11, 12, 14, and 114.

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. For beginners. The elements of grammar and pronunciation; extensive, carefully graded reading in both the Spanish and Spanish-American fields. Exercises in speaking and writing.

Indivisible course.
Open to freshmen.
Through the year. M. W. F., 11; Tu. Th. S., 11. Mr. Luce

12. INTERMEDIATE. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading of texts dealing with Spain and Spanish America.

Prerequisite: Spanish 11, or the equivalent, to be determined by a placement test.

Indivisible course.

Open to freshmen.

Through the year. Tu. Th. S., 10 and M. W. F., 8.
MR. RAMSEY and MR. LUCE

13. THIRD-YEAR ORAL AND WRITTEN SPANISH. A rapid intensive review of grammar; the elements of phonetics; exercises in composition and pronunciation; conversational practice. Course 13 is conducted largely in Spanish.

Prerequisite: Grade of B— or higher in Spanish 12, or equivalent skill in the language, to be determined by a placement test. Admission is subject to the approval of the instructor.

Open to freshmen.

Through the year. M. F., 11, and W., laboratory, 1 to 3.
MR. RAMSEY

Offered in alternate years. Omitted 1951-52.

14. READINGS IN SPANISH AND SPANISH-AMERICAN LITERATURE. The aim of Spanish 14 is two-fold: the attainment of facile reading ability and an appreciation of some outstanding examples of Spanish and Spanish-American literature.

Prerequisite: Spanish 12, or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. M. W. F., 10; Tu. Th. S., 8. MR. RAMSEY

114. THE LITERATURE OF SPAIN. A general view of Spanish literature with emphasis on the study of the origins and development of the novel and drama, culminating in the masterworks of the nineteenth century. Necessary attention will be given to political and cultural background.

Prerequisite: Grade of B— or higher in Spanish 13 or 14 or the equivalent.

Through the year. M. W. F., 11. MR. RAMSEY

Offered in alternate years. To be omitted 1952-53.

115. SPANISH-AMERICAN LITERATURE. The principal literary trends in Spanish America from the colonial period to the present day. Special emphasis will be placed on novels and short stories important to the understanding of the nature and problems of life in Latin America.

Prerequisite: Grade of B— or higher in Spanish 13 or 14, or the equivalent.

Through the year.

Offered when the demand warrants. Omitted 1951-52.

123b. ADVANCED LANGUAGE. Advanced composition and special study of grammatical topics.

Prerequisite: Grade of B— or higher in Spanish 13, and, preferably, Romance languages 124a

Half course. Second semester.

Offered when the demand warrants. Omitted 1951-52.

ROMANCE LANGUAGES 124a. COMPARATIVE FRENCH AND SPANISH PHONETICS. The elements of general phonetics. A detailed study of the pronunciation of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: Grade of B— or higher in French 13 or Spanish 13.

Half course. First semester. M. W., 10; laboratory F., 1-3.

Offered in alternate years. Omitted 1951-52. MR. REID

COURSES IN RUSSIAN

These courses are offered to enable students to acquire a reading knowledge of the language.

RUSSIAN 11. ELEMENTARY RUSSIAN. Basic grammar and vocabulary.

Through the year. MR. RAEFF

RUSSIAN 12. INTERMEDIATE RUSSIAN. Advanced grammar. Reading and conversation.

Through the year. MR. RAEFF

SOCIOLOGY

A description of the offerings in Sociology will be found in the announcement of the Department of Economics and Sociology.

SPANISH

A description of the offerings in Spanish will be found in the announcement of the Department of Romance Languages.

The Summer Term

JUNE 25 TO SEPTEMBER 14, 1951
JUNE 23 TO AUGUST 8, 1952

A six-week summer school was established in 1921, primarily to serve teachers who were employed during the regular academic year. Its organization and its offerings were relatively independent of the general university program.

The national emergency beginning in 1941 made it desirable to provide opportunities for college students to complete their requirements for a bachelor's degree in as short a time as possible. Accordingly the summer school was lengthened to twelve weeks and made an integral part of the college program. With the passing of the emergency and with the demands for acceleration decreasing, the twelve-week summer was discontinued at the close of the 1949 session.

For the summer of 1950 a return was made to a summer school slightly more than six weeks long with a *core theme, American Citizenship.*

In the summer of 1951 a program similar to that of 1950 was offered, with a six-week term from June 25 to August 3. This was planned for undergraduates at the junior and senior levels; for graduate students and for teachers and school administrators. The program was centered about *a core theme, Training for Citizenship in the Modern World.*

When it appeared that another crisis might be at hand, an additional program, suitable for undergraduates at all levels and extending through a twelve-week term, was announced. The first six-week session ran coincidentally with the more specialized program originally announced: the second session continued from August 6 to September 14.

For the summer of 1952 a return will be made to the shorter term of approximately six and one-half weeks, from June 23 to August 8.

Work done in the summer term may be counted toward the fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Business Administration, Master of Arts, and Doctor of Philosophy. Certain courses may also be carried as free electives toward the degree of Bachelor of Business Administration. A graduate student should secure the explicit approval of his major department for any program undertaken during the summer term.

Unless otherwise announced, subjects are presented in half courses. A half course, equivalent to three semester hours, involves five sixty-minute periods per week, or their equivalent, throughout six weeks.* A normal program is two subjects carried concurrently.

Tuition charges, for a normal program of two subjects, are $90.00 for the six-week term. The charge for a single subject is $45.00.

Dormitory accommodations for both men and women are available at reasonable rates.

The Summer Term Bulletin contains descriptions of the various courses to be offered and may be had upon application to The Dean of the College, Clark University, Worcester 10, Massachusetts.

Courses Offered in the Summer Term of 1951

Courses are identified by number. The letters "a" and "b" following a course number indicate that the course is offered for the first session or for the second session respectively. Any particular course bears the same identifying number whether it is offered during the regular academic year or in the summer term. Courses primarily for undergraduates have numbers beginning with the figure "1," those for advanced undergraduates and graduate students, with the figure "2," and those primarily for graduate students, with the figure "3."

The following courses were given during the 1951 summer term.

BIOLOGY

ST 11	General Biology	Mr. Nunnemacher and Mr. Potter
ST 224a	Neuro-anatomy	Mr. Nunnemacher
ST 18b	Genetics	Mr. Potter

---

*For the summer of 1952 courses will meet for seventy-five minute periods.

BUSINESS ADMINISTRATION

ST 16	Business Statistics	Mr. Melder and Mr. Hargest
ST 18	Business Organization and Finance	Mr. Hanson and Mr. Zukowski
ST 181b	Industrial Management	Mr. Hargest

CHEMISTRY

ST 11	General Chemistry	Mr. Martin and Mr. Stern
ST 15	Organic Chemistry	Mr. Martin and Mr. Martell

ECONOMICS

ST 13a	Money and Banking	Mr. Hanson
ST 211a	Current Economic Problems	Mr. Melder

EDUCATION

ST 210a	Principles and Problems in Character and Citizenship Development	Mr. Jones
ST 216a	Workshop in Citizenship Education	Mr. Jones and Fellows of the Palmer Foundation
ST 217a	Counseling Techniques in Secondary School	Mr. Lane
ST 221a	Secondary School Administration	Mr. V. Johnson
ST 231a	The Secondary School Co-Curricular Program	Mr. V. Johnson

ENGLISH

ST 11	Composition and Literature	Mr. Moore and Mr. Carter
ST 12a	Public Speaking	Mr. Moore
ST 17b	Great English Writers	Mr. Carter
ST 118a	Literature and the Nature of Man	Mr. Anderson
ST 190a	Great American Novels	Mr. Anderson

FRENCH

ST 12	Intermediate French	Mr. Nicol and Mr. Reid
ST 14	Readings in French Literature	Mr. Nicol and Mr. Reid

GEOGRAPHY

ST 191	Cartography	Mr. Burnham
ST 27a	Human Geography for Teachers	Mr. Shaw
ST 201a	Political Geography	Mr. Van Valkenburg
ST 283a	Latin America	Mr. Shaw
ST 285a	Geography of Europe	Mr. Van Valkenburg

GERMAN

ST 12	Intermediate German	Mr. Arndt and Mr. Edwards
ST 13	Third Year German	Mr. Arndt and Mr. Edwards

HISTORY

ST 201a	New Viewpoints in History	Mr. Jordan and Mr. Lee
ST 204a	Conflicting Ideologies of Our Time	Mr. Jordan
ST 213a	Europe and the United States since 1918	Mr. Lee
ST 24b	International Relations	Mr. Hayden
ST 274b	The Modern Far East	Mr. Hayden

MATHEMATICS

ST 11	Freshman Mathematics	Mr. Bumer and Mr. Stubbe
ST 15a	Theory of Equations	Mr. Bumer
ST 20b	Inequalities	Mr. Stubbe

PSYCHOLOGY

ST 11	General Psychology	Mr. Gollin
ST 190b	Applied and Industrial Psychology	Mr. Gollin

SOCIOLOGY

ST 12b	Introduction to Cultural Anthropology	Mr. Killian
ST 16b	Social Problems and Their Analysis	Mr. Killian

The Degree of Bachelor of Education

The Degree of Bachelor of Education has been offered primarily to teachers in the Worcester school system and to those in nearby towns since 1923. A condition for admission to candidacy for the degree is completion of a two-year normal school course, or its equivalent. A year of professional, full-time teaching experience is a prerequisite for the degree.

Since the State Teachers College of Worcester began granting a bachelors degree the reasons for offering such a degree have largely ceased to exist, and there has been a material shrinkage in the number of candidates.

At present new candidates may be accepted, if at all, only after special action.

Degrees Conferred

IN THE CALENDAR YEAR 1951

BACHELOR OF ARTS

Elaine Frances Adams
Thomas Bolton Ahern
Festus Gilbert Amsden
Nicholas Ernest Andreson
Paul Herbert Askling
William Albert Bailey
  with Honor in General Course
Clarence Edward Barnes
Peter Barsoum, Jr.
  ("as of" June 1950)
Mabel Bartlett
  ("as of" June 1950)
Dolores Ann Bartuska
Adelbert Fuller Baskin
Franklin Wellington Baumgartner
  ("as of" June 1950)
Robert Dorr Belden
Theresa Rose Borkowski
Ruth Cabot Bouvé
Donald Joseph Bowler
  with Honor in General Course
Richard Romeo Brodeur
  ("as of" June 1950)
Winthrop Curtis Brown
Joseph John Buchyn
  with Honors in Economics and Sociology
Mary Elizabeth Butler
  with Honor in General Course
Edward Nicholas Carey
Raymond Joseph Castriotta
Carlos Manuel de Castro
Eugene Roland Chartier
Philip Stanley Chen, Jr.
  with High Honor in General Course
  ("as of" June 1950)
Marie Jacqueline Choiniere
Lois Ruth Cohen
Christopher Collier
Ralph Christian Cooper, Jr.
  ("as of" June 1950)
Allan Satterthwaite Davis
Richard DeForest Davis
  ("as of" June 1950)
Edward John Delehanty
George Dana DiRado
Richard Edward Dwyer
Jean Helen Egan
Rosaline Epstein
Donald Elmer Erdman
George Carl Erickson, Jr.
Robert Henry Ericson
Eleanor Marion Ewing
John Edward Fallon
  with Honors in Geography
Jeanne Eloise Farr
Genevieve Agnes Fischer
Earl Vincent Flagg
  ("as of" June 1950)
Charles Edward Flint
Mary Jane Flynn
Enrico Henry Forchielli
Beverly Jean Fox
Robert William Fox
  ("as of" June 1950)
Roland John Frodigh
  with Honors in Geography
Samuel Bernard Garbose
Victor Ferris George
Richard Warren Gibbs
Arthur Goldstein
Leon Hersch Golumbuk
  with Honors in Psychology
Edward Charles Goss
Nancy Ann Thayer Grant
Pauline Elizabeth Graves
Aubrey Greenwald, Jr.
Robert Woods Guy
Don Paul Haefner
  with Honor in General Course
  and with Honors in Psychology
Ruth Marie Hefner
  with Honor in General Course
  and with Honors in Psychology
Audrey Ruth Halperin
Paul Church Hemenway
Joseph Allen Hill
John Stephen Holloran, Jr.
David Roland Holm
Paul Wendell Houle

Cecile Gloria Hurvitz
Albert John Iacobucci
Harold Waldemar Jacobson
Betty Ellen Johnson
Sally Davies Johnston
John Oliver Johnstone, Jr.
Margaret Elizabeth Jones
Robert Kalin
William Francis Kane, Jr.
Rena Susan Kant
Stephen Lloyd Kaufman
Louise Marie Kennedy
Stanley Francis Kiewra
 ("as of" June 1950)
Theresa Christine Kosciusko
Liberty Catherine Koskinas
Herman Harry Kramer
Anthony Vitie Krochalis
Samuel Mayer Laipson
Robert Alan Lancey
 with High Honor in General Course
Robert Lawrence LeClaire
Harold James Lee
William John Lee
Willard Allen Legg
Jean Macintyre Leigher
Henry Vincent Listewnik
Alfred Irving Lonstein
Robert Edward Lund
Norman Merrill Lurier
Jean Mary Lynch
Dominic Anthony Manduca
June Lorraine Mann
Irma Joyce Mayhew
 with Honors in Economics and Sociology
Anna Nichols McGrath
 with Honor in General Course
William Andrew McLean
 with Highest Honor in General Course
James Martin McNulty
Alan Gilman Mellin
Tom Leopold Mohr
 with Honor in General Course and with Honors in Psychology
Norma Joyce Mongeon
Edward Harold Mooradkanian
William Dunning Mulligan
Ann Marie Murphy
Leroy Joseph Murray
Subbiah Muthiah
Wallace Haslett Myers

44

Betty Louise Nelson
Roy Stanley Nelson
 ("as of" June 1950)
Thomas Leverett Nelson, Jr.
John Nimmo
Stanislaus John Noniewicz
Margaret Rita O'Grady
Walter John Pacek
 ("as of" June 1950)
Ernest James Pappas
Daniel Felix Pawlikowski
Stanley Michael Petka
 ("as of" June 1950)
Charles Foskett Phelps
Florence Josephine Pongowski
Valerie Mary Proodian
Beverly May Putnam
Charles Nicholas Rassias
 with Honors in International Relations
Gerald Owen Richards
Renato Mario Rondinella
Geno Francis Salvatelli
Robert Lauer Schuman
Noel Chase Sears
 with Honors in Physics
Claire Lorraine Seay
Khachatoor Shatikian
 ("as of" June 1950)
Joan Mary Shiminski
 with High Honor in General Course
Dorothy Louise Simpson
Ian Ballantyne Smith
Judson Wylder Spalding
John Eric Swanstrom
Robert John Tashjian
Roger Tucker Thurston
Raymond Eugene Tibbetts
Allan Francis Torres
Peter Alexander Tosi
Mary Louise Vandersea
George Victor Vasil
Andrew Thomas Viglucci
Francis Donald Welch
Ray Faunce Weston, Jr.
Clayton Andrew Wetmore
Leon Edward Whitney, Jr.
Helga Woodrich
William Mark Wynne
Graenem Abba Yoffe
Betty Saunders Youngren
Henry Zuk

BACHELOR OF BUSINESS ADMINISTRATION

Theodore Francis Adams
("as of" June 1950)
Vasgen Babigian
("as of" June 1950)
Robert Edward Bachmann
Leonard Joseph Beauregard
Burton Franklin Berg
James Leonard Blue
Gordon Salisbury Brandes
Harvey James Burgoyne
Alton Lebro Ceccoruli
Philip Sheu Tung Chin
Saverino Ciani
Richard Dean Cochran
Richard Mark Cohen
John Joseph Crowley, Jr.
("as of" June 1950)
Michael Frank Debitetto
George Degermajian
Sylvio Paul Demers
with Honors in Business
Administration
Joseph Aloysius Finan, Jr.
Ernest Haskell Fink
Leo Bashara Forzley
("as of" June 1950)
William Dubois Fowler
Kenneth Paul Gauthier
Laurence Alan Gravin
James Arthur Healy
Russell Werner Hohne
Charles Henry Jacobs
Robert William Kirby
Joseph Gerard Litalien
Sumner Wellington Loomer
Mieczyslaw Marian Makowiecki
John Francis Marshall
Julius Pearl Maynard
Harry Leo McGachie
Marshall Conrad McGrath
Peter Andrew Michaelian
Minas Minasian
Arnold David Mindick
with Honors in Business
Administration
Robert Angelo Morello
("as of" June 1950)
Peter Thomas Niarchos
("as of" June 1950)
Virginia Nicholas
with Honor in General Course
James Nicola
Alan Edward O'Neill
Ernest Girard Paquette
Robert Howard Pentland
Paul Norman Peterson
Robert Paul Plucinski
William James Schollard, Jr.
Gerald Schuster
Ralph Adelbert Seaver, Jr.
Frederick Neil Sheppard
Dudley Benson Sherry
with Honor in General Course
and with Honors in Business
Administration
Morton Herbert Sigel
Frank Henry Sleuman, Jr.
Charles Francis Smith, Jr.
("as of" June 1950)
Joan Marie Spillane
Stanley Francis Stickney
Bernard S. Stolbof
Joseph Sumner
David Andrew Svenson
Allan Avery Thresher
Edmond Andrew Trudeau
Joseph John Tyborowski
("as of" June 1950)
Paul Edward Ullstrom
("as of" June 1950)
John Francis Woods

MASTER OF ARTS

Naji Mulla Abbas
Dorothy Alice Amidon
Kenneth Augustus Anderson, Jr.
James Joseph Barrett, Jr.
Howard Thomas Blane
Orton Carmichael Butler
Francis Frederick Carini
Louis Peter Carini
Mary Leonard Caruso
John Martin Collins, Jr.
Peter Elia Comalli, Jr.
Bradley Fisk, Jr.
Jean Dominique Fourré
Saretha Gaskins

Esther Christine Goddard
Alvin George Goldstein
Thomas Lee Goodman
Richard Vessot Gorham
Lillian Gottesman
Andreas Peter Grotewold
Neil Washington Halkyard
Peter Hirschberg
William Luther Jeyasingham
James Patrick Jones
Margery Ruth Johnson
David Hodgkins Kellogg
Nathan Schellenberg Kline
Donald Max Krus
John Everett Lane
Michael Thomas Lategola
Betty May Linsley
Herbert Lipton
Dana Anton Little
George Charles MacGillivray
Gloria Manter MacGillivray
John Francis Markham
Sister Mary Clarissima
Wojciech Monkiewicz
Andrew Smith Moreland
Beatrice Loretta Neary
Samuel Maurice Osgood
Paul Vincent Salley
William Warren Sanford
Harry George Schalck
William Davis Shepard
Li-chang Shih
Walter Benno Simon
Robert Frank Slechta
Paul Solomon
Nancy Taylor
Paul Peter Vouras
Miles Waverly Weaver

MASTER OF ARTS IN EDUCATION

Walter Joseph Basiul
Gale Winslow Bennett
Clare Therese Cassidy
Paul Joseph Connolly
Rita Elizabeth Finneran
John Francis Hobin
Irja Rachel Hofschire
Emil Luther Johnson
Alden Alfred Larson
Nadine Helen Mangan
Margaret Ann Marlborough
Albert Daniels Morse
Gerald Ritter
Richard Paul Sandberg
Dorothy Tite
Richard Napoleon Wegrzynek
John Philip Whalen
Martin Charles Wilson
Bernard Norman Ziemski

DOCTOR OF PHILOSOPHY

Arthur John Bruno
Savitri Gauba Burman
Arthur Lowe Burt
Harry Harrison Caldwell
Clark Nixon Crain
Harold Franklin Creveling
Eugene Simon Gollin
Larry Hemmindinger
John Lewis Jenness
Carey Bonthron Joynt
Edith Rose Kaufman
Engbert Jan Coen Kiewiet de Jonge
Herman Kleine
Ralph Francis Lumb
Wallace Edward McIntyre
Albert Norman
Edward Lewis Siegel
Clark William Simmons
Aaron Joseph Wraight

HONORARY DEGREES

Frederick Charles Bersworth	Doctor of Science
Hugh Llewellyn Keenleyside	Doctor of Laws
Henry Cabot Lodge, Jr.	Doctor of Laws
Fred Albert Mettler	Doctor of Science
Clarence Prouty Shedd	Doctor of Humane Letters

SUMMARY

Degrees in Course	
Bachelor of Arts	156 ✓
Bachelor of Business Administration	64 ✓
Master of Arts	52
Master of Arts in Education	19
Doctor of Philosophy	19

Honorary Degrees	
Doctor of Laws	2
Doctor of Science	2
Doctor of Humane Letters	1

Register

Names of students are grouped in four lists. I, graduate students, undergraduate students, and special students in attendance during the regular academic year 1951-52; II, those who were in attendance the second semester only; III, students in residence less than one semester; IV, those who attended the 1951 Summer Term.

I. GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING THE REGULAR ACADEMIC YEAR

Explanation: S—scholar; F—fellow; TF—teaching fellow; numerals 52, 53, 54, and 55 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students: B—biology; BA—business administration; Ch—chemistry; Ec—economics and sociology; Ed—education; En—English; FA—fine arts; Ger—German; G—geography; H—history and international relations; M—mathematics; Ph—physics; Phil—philosophy; Ps—psychology; RL—romance languages.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

An asterisk (*) indicates a student not in residence for the entire year. "V" preceding the classification indicates a veteran.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Ackerman, Jerrold Leonard	52	Waterbury, Conn.	81 Downing
Adams, Harold Walter	V H F		31 Clifton
Adamsky, Cathryn Ann	55	Auburn	
Aharonian, Donald John	54		91 Chandler
Ahern, Edward Cyril	53	New Haven, Conn.	10 Charlotte
Ahmadjian, Vernon	52	Whitinsville	
Allabashi, John Christo	52	Southbridge	
Allard, Robert Stanton	V 53		Green's Trailer Pk.
Allstrom, Barbara Marianne	52	Auburn	
Alpart, Marilyn	53	Paterson, N. J.	Fanning House
Anderson, Gunnar Bjork, Jr.	53	Boylston	16 Marble
*Anderson, Walter Roger	52	Athol	11 Boynton
Angelos, James Thomas	54	Fitchburg	
Arbo, Walter Leslie	53	East Poultney, Vt.	16 Marble
Ardehali, Ali	Ec F	Teheran, Iran	9 Clifton
Arkwell, Chester Stanley	55		17 W. Boylston Dr.
*Arsenian, Albert John	V 52	Medford	875 Main
Asare, Theodore Oboo, Jr.	Ec g	Worawora, Gold Coast, West Africa	86 Woodland
Atwell, Donald Lockhart	V G g	Granville, O.	27 Wyman
Austin, Richard Marsh	52	Dudley	11 Benefit
Avey, Robert Edmond	V 54	Marlboro	
Babor, Warren Rud	54	Bound Brook, N. J.	Estabrook Hall
Bacon, Hugh Christy	53	North Haven, Conn.	11 Mt. Vernon
Bailey, Hildreth Caldwell	52	White Plains	21 Shirley
Baker, Elliot	52	Lynn	36 Richards
Bank, Stanley	55	Bronx, N. Y.	Estabrook Hall
Barker, Robert Burns	V 54		90 Burncoat
Barse, Lawrence Paul	55	Forest Hills, N. Y.	Estabrook Hall
Baskin, Mrs. Esther Tane	Ps F		6 Castle
Batstone, Donald McCullough	53		136 Elm
Beaudin, Marcia Rita	53	Spencer	Woodland House
Belevick, Albin Francis	55	Paxton	
Benjamin, Howard Bennett	52		28 Moore Ave.
Benjamin, Marcel René	V 54	N. Grosvenordale, Conn.	
Benoit, Pierre Leo	V 52	Southbridge	
Benson, Peter Alfred	52	Uncasville, Conn.	71 Jaques Ave.
Bercume, Aline Susan	54		930 Main
Bergstrom, Evelyn Mae	52	Millbury	
Berkowitz, Hilda	53		25 Woodford
Bernstein, William Elliott	53		83 Park Ave.
Berthold, Elden George, Jr.	54	Attleboro	16 Marble
Besnia, Richard Paul	53		30 Institute Rd.
Biancheria, Amilcare	52		16 Prentice

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Bianchi, David Alden	55		25 Perkins
Bibace, Roger Maurice Albert	Ps g	Alexandria, Egypt	5 Maple, Brookline
Bicknell, David Reed	55		16 Bay State Rd.
Bicknell, Donna	En s 54		16 Bay State Rd.
Bilzerian, Edward Sarkis	55		1264 Pleasant
Binkiewicz, Longin Wladyslaw	V 55	East Walpole	Estabrook Hall
Blais, Frederick William	52	W. Stewartstown, N. H.	Box 288, Westboro
Blane, Howard Thomas	V Ps g	Daytona Beach, Fla.	511 Park Ave.
Bley, John Earl	54		2 Clough Ter.
Bliss, Frederick Allen	V 52	Aberdeen, N. C.	36 Richards
Bloch, Edward	54	Flushing, L. I., N. Y.	Estabrook Hall
*Blomgren, Bertil Carl A.	V 54		2 Weelahka Pl.
Bloomgarden, Gerald Alan	54	Laurelton, L. I., N. Y.	Estabrook Hall
Boffoli, Americo Salvator	V 52		317 Shrewsbury
*Bogoian, George	V 53		49 Florence
Boisvert, Gregory Louis	Ph S		Assumption Col.
Boisvert, Jean Jacques	G g	Shawinigan Falls, Can.	6 Wyman
Boole, George Hagop, Jr.	V 53	Roxbury	35 Maywood
Boryczewski, Walter Edward	V 53		55 Lafayette
Boucher, Bertrand Phillip	V G F		36 Vinton
Boucher, Russell Louis	V 55	Clinton	
Bouley, Gloria Ann	55	North Oxford	Blakeslee House
Bouvé, Clifton Edward	V 55		14 Richmond Ave.
Bowen, Walter Edward	Ed g	Spencer	
Bragg, John Douglas	V 54	Framingham	
Braverman, Samuel William	52	Bedford	36 Richards
Breen, John Joseph, Jr.	V Ec g	Providence, R. I.	
Brennan, Dorothy Ann	52		82 Birch
Briggs, Harry Caldwell	53		121 Bailey
Brooks, Blossom Sheila	53		78 May
Brooks, Hugh Campbell	V G F	Seattle, Wash.	21 Coe
Brooks, Marvin Sidney	52		78 May
Bruell, Jan Herbert	Ps F		2 Oak
Bruso, Jean Anne	53		507 Cambridge
Budwick, John Michael, Jr.	V 53	Gardner	
Bult, Richard Baker	53	Albany, N. Y.	100 Woodland
Bumer, John Quinette	V 53		121 Richmond Ave.
*Bumer, Richard Fuller	52		121 Richmond Ave.
Burdulis, Bernice Mary	55		146 Sterling
Burkill, Gracia Marion	V Ed g	Spencer	
Burns, Patricia Ann	55		27 Grand
Burton, David MacGregor	54		87 June
Bush, Everett Homer	V G g	Westfield	4 Cabot
Butler, Philip Edward	V Ed g		14 Chatham Vil. Rd.
Butler, Valerie Frances	54		8 Agawam
Butterworth, Herbert Hartley	V 55	Southbridge	
Buzzell, Ronald Chester	53	Stockholm, Me.	40 Richards
Byron, Paul Mortimer	55	Fisherville	
Cain, Richard Austin	52	Marlboro	71 Jaques Ave.
Cantin, Normand Joseph	55	Leominster	
Card, Bryant Walter	55		199 Pleasant
Carey, Margaret Jean	52		55 Brantwood Rd.
Carey, Robert Vincent	V 52	Millbury	
Carini, Francis Frederick	V Ch F	Framingham	6 Castle
Carini, Louis Peter	V Ps F		919 Main
Carlon, Kenneth Gustaf	52		1 Willvail
Carlson, Arnold Renaldo, Jr.	V 52		138 Barnard Rd.
Carlson, Richard David	V 55	Framingham	
Carmody, William Clark	52	Boston	40 Richards
Carney, Francis Leslie, Jr.	52	Bristol, N. H.	Memorial Hosp.
Carofanello, Frank Anthony	53		14 East Shelby
*Casdin, Harriet Jocelyn	H s		26 Woodford
Cederlund, Albert Merrill	52		16 Steele
Celinskis, Janis Voldemars	H g	Riga, Latvia	718 Main
Centorino, James Joseph	V G F	Salem	18 Shepard
Chandler, Kenneth Ashton	V Ps TF		7 Hawthorne
Chang, Jen Hu	G F	Taipeh, Formosa	50 Woodland
Chapman, Sally Ann	55		134 Richmond Ave.
Charron, Georgiana Mae	54		70 Longfellow Rd.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Chartrand, Yolande Marie	53		1 Dawson Rd.
Chekas, Aldona Janina	53		24 Waverly
Chew, Margaret Sarah	G F	Evanston, Ill.	4 Cabot
Chin, Christopher John Matthew	V 53	Northfield, Vt.	8 Silver
Chin, Eugene Sheu Theung	54		106 Mechanic
Church, Joseph	V Ps F		10 Silver
Cipriani, Francis Paul	52	Clinton	8 Oliver
Clark, Carolyn Janet	53		63 Barnard Rd.
Clark, Jean Marie	54	Troy, Pa.	Blakeslee House
Clavien, Yvonne Marcelle	53	Templeton	Woodland House
Clegg, Donald Howard	52	Verona, N. J.	34½ Gates
Collins, James Nolan	V Ed g	Springfield	
Collins, Philip Joseph	V 52		7 Hawthorne
Comalli, Peter Elia, Jr.	V Ps F	Lee	5 Cristy
Companion, Janet Louise	54	Auburn	
Connolly, Raymond Joseph, Jr.	V 54	Marlboro	11 Hawthorne
Cooke, Marilyn Flora	53	W. Brattleboro, Vt.	Fanning House
Cooke, Milton James	52	West Boylston	
Cooper, William George, Jr.	53		73 Brigham Rd.
Corey, Roger Marcroft	52	Millbury	
Cormier, George Edward	52		5 Harris Ct.
*Corriveau, Albert	54	Patten, Me.	15 Webster
Couch, Norman Walter	54	New Preston, Conn.	11 Dean
Coulter, Alan George	V 53	Chicopee	13 Gates
Coulter, William James, Jr.	53		19 Hartford Rd.
Coupe, George Alfred	V 52		7 Freeland Ter.
Cournoyer, Raymond Roger	52		35 Dartmouth
Courtney, Richard Clyde	V Ch S		26 Woodland
Coutu, Mrs. Kathleen Ciprian	Ed g		8 Ashburnham Rd.
Cowen, Donald Wayne	55	Providence, R. I.	Estabrook Hall
Cowen, Hope Barbara	52	Providence, R. I.	Blakeslee House
Coyle, Thomas Harrison	V Ed g	Jersey City, N. J.	7 Kilby
Cramer, Howard Stanley	55		68 Vassar
Cranska, Nancy Carolyn	54	Oxford	
Craven, Frank Joseph	V Ch S	Lowell	40 Richards
*Crawford, Bruce	V M s	Northboro	
Crawford, Robert Lee	55		45 Gardner
Crovitz, Herbert Floyd	53	Edgewood, R. I.	11 Charlotte
Cunningham, Howard Monroe	53	Patten, Me.	100 Woodland
Curran, Maryjane Elizabeth	53	New Rochelle, N. Y.	12 Elmwood
Curtis, Nancy Lillian	53		15 Sigel
Cusson, Richard Paul	V 54	Auburn	
Dagirmanjian, Rose	52	Whitinsville	
Dahlstrom, Robert Frederick	53		11 Louise
Daley, Harry Edward, Jr.	V 55	Shrewsbury	
D'Amico, Frank William	V 52	Dorchester	23 Gardner
D'Angona, Dominic Stephen	V 54		40 Burghardt
Daspin, Michael Jerome	55	New York, N. Y.	Estabrook Hall
*Davidson, Chester Joseph	V 52		8 Watson Ave.
Davidson, James Paul, Jr.	54	Lowell	166 Summer
*Davidson, Louie	V 52	Dorchester	20 Gates
Davis, Groves Bradford	52		5 Jenkins
*Davis, Robert Arthur	G F	Toronto, Canada	6 Charlotte
Davis, Roberta Louise	54		24 Walcott
Dawes, Mrs. Carole Gibson	54		15 Shepard
Dawson, Edmund Rushmore	55	Hudson, N. Y.	Estabrook Hall
Delle, George Victor	52		14 Pelham
Delliquadri, Lawrence Michael	G S	New Castle, Pa.	100 Woodland
Demers, William Joseph	55	Webster	
DerBedrosian, Sarkis	53		10 Woodland
Dickison, Russell Alvin	V 53		417 Lake Ave.
Dickman, Irwin Lawrence	54	Brooklyn, N. Y.	36 Richards
*DiVerdi, Angelo M.	V 54		283 Shrewsbury
Donoghue, Cornelius Sylvester	Ec g		117 Merrifield
Doris, Robert Morrison, Jr.	53		9 Hawthorne
Dornbach, John Ellis	V G F	Belleville, Ill.	38 Benefit
Douthit, Robert Collyer	54	Petersham	6 Downing
Dowgert, Boleslaw Stanley	V H g		17 Fairfax Rd.
Downes, George Andrew, Jr.	53		9 Wentworth

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Downey, Rae Edythe	54		16 Royal Rd.
Driscoll, John McInerney	54		48 Arlington
Drucker, Herbert	52	Montclair, N. J.	36 Richards
Dube, Oscar LeRoy	53	Fall River	7 Kilby
*Dubickas, Joseph Anthony	55		112 Ward
Duclos, Robert Joseph	V 53		175 Cohasset
*Dufault, John Peter	Ed g	Athol	
Duffy, John Francis	54		310 Hamilton
Dufresne, Earl Lincoln	54	Northboro	
Dukakis, Arthur George	52	Lowell	11 Hawthorne
Dunkle, John Robert	V G g	Tallahassee, Fla.	12 Wyman
Durkin, Paul Vincent	V 52		38 Ames
Eaton, Florence Louise	Ed g	Portsmouth, N. H.	Worc. State Hosp.
Eaves, Alyne May	52	Southbridge	
Ehrlich, Daniel Joseph	54	New York, N. Y.	74 Florence
Ehrmanntraut, William James	53	Belle Harbor, N. Y.	128 Beaverbrook Pkwy.
Eisenberg, Frederick Aaron	52	Brookline	40 Richards
Elbein, Alan David	54		6 Howland Ter.
Ellis, Virginia Howard	54		22 Howland Ter.
*Emery, Edward Belknap	V 54	Westboro	
Emond, Norman Richard	Ed g	Putnam, Conn.	
Emory, Jewel Ann	52		48 William
Ephraim, Elliot Maurice	55	Providence, R. I.	Estabrook Hall
Erickson, Carolyn Ann	54		34 Butler
Erickson, Nancy Marie	53		6 Chesterfield Rd.
Erickson, Richard Bruce	54	Milford	
Escolas, Richard Allen	55	Auburn	
Estrin, Lester Dean	V G F	Los Angeles, Cal.	67 Fairfield
Fairbank, Margaret Weir	52		23 Bailey
Falk, Gerald David	53	New York, N. Y.	36 Richards
Falter, Elizabeth Johanna	54	Woodcliff Lake, N. J.	Fanning House
Farnum, Hanford Alden	Ed g		9 Westland
Feeley, Joseph Carmel	V 53		5A Forestdale Rd.
Feinberg, Martin	53	New York, N. Y.	36 Richards
*Feldman, Mrs. Elaine Lois	Ps s		28A King
Feldt, Nancy Ann	55	Auburn	
Fesuk, Stephen Boris	V 52		14 Alpine
Fetherolf, John Warren	V 53	Middletown, N. Y.	14 Oberlin
Finnegan, Henry Paul	V 53		14 Caroline
Fischer, Gerhard Willi	Ec s	Bischofsheim, Germany	13 Stoneland Rd.
Fischer, Joyce Kay	53	Bridgeport, Conn.	Blakeslee House
Fisher, Gerald Saul	52		34 Wabash Ave.
Fisk, Bradley, Jr.	G g	Buffalo, N. Y.	20 Gates
Fitzgerald, William Matthew	V 52		57 Barclay
Flavell, John Hurley	V Ps g	Rockland	40 Richards
Fleischer, Désirée	55	Brooklyn, N. Y.	Fanning House
Flint, Barry	55	Newark, N. J.	Estabrook Hall
Flynn, Ann Marie	53	Southbridge	
Fogg, Barbara Alice	54	Lewiston, Me.	35 Fales
Foley, Elizabeth Mary	54		192 Highland
Foley, Joann Marie	52		192 Highland
Foley, Martin Joseph, Jr.	55		192 Highland
Forgit, Raymond Wellington	V 52	Rochdale	
Forzley, Gladys Mary	Ger s		3 Cutler
Foskett, Daniel Osgood	55	Dodge	
Foster, Mary Catherine	H S	W. Hartford, Conn.	24 Gates
Fox, Jerome	53	Albany, N. Y.	11 Charlotte
Fraga, Louis Maurice	V Ec g		17 Osceola Ave.
Fraser, Ian Shenstone	G g	Toronto, Canada	34 Gates
Fredrikson, Donna Carolyn	55	Holden	
Freile, Alfonso José	G F	Forest Hills, N. Y.	100 Woodland
Freitag, Joyce Jacqueline	52	Clinton	
Freitag, Marlene Marie	54	Clinton	
Friedmann, Eric Martin	52		104 Providence
Frodigh, Robert Carl	V 54		29 Quinapoxet Lane
Gabrielson, Carol Rita	Ps g	Scarsdale, N. Y.	17 Oberlin
Gadomski, Stanley John	V 52	Clinton	

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Gagne, Robert Pickering	53	Andover	8 Oliver
*Gallagher, Norman Vincent	54	Oakdale	16 Marble
Gammal, Albert Abraham, Jr.	V 52		11 Hawkins
Garratt, Elizabeth Adelaide	54	Auburn	
Gaskell, David Carleton	52		1204 Main
Gauch, Ruth Magdalene	54		43 Dellwood Rd.
*Gay, Walter Irving	V 52	Southbridge	
Gendreau, Robert Henry	52	Spencer	
Gerrol, Melvin H.	55		3 Bellvista Rd.
Giannette, Frank	54		4 Farwell
Giannini, Louis Domenic	V 52		51 Tampa
*Gibbs, Richard Warren	B s		119 Monadnock Rd.
Gilbert, Richard Gordon	53	Auburn	
Giles, Wesley Reginald	V 52		6 Harlow
Gilrein, Suzann Mary	55		21 Woodland
Ginsburg, Elizabeth Asher	53		11 Brantwood Rd.
Giuffrida, Matthew Roland	V 53		197 Belmont
Givan, James Alexander, Jr.	V 54		318 Highland
Glennon, William Francis Michael	V 52	Mattapan	14 Oberlin
*Gobets, Arthur	V Ch s	Boston	10 Lowell
Goldman, Alfred Emmanuel	V Ps g	Bronx, N. Y.	5 Cristy
Goldman, Mrs. Norma Goldberg	53	Pawtucket, R. I.	
Goldstein, Alvin George	V Ps g		7 Kilby
Goldstein, Julian Morton	55	New York, N. Y.	Estabrook Hall
Good, Robert Emmett	55	New York, N. Y.	Estabrook Hall
Goodale, Paul Alan	52	Leominster	
Goodnow, Richard Needham	54	Princeton	
Gordon, Harold Burnham	V 53	Rutland	
Gordon, Robert Allen	V G s		33 Merrick
Gorham, Richard Vessot	H F	Fredericton, N. B., Canada	10 Sycamore
Gorrell, Robert Bryce	V Ps g	Westboro	
Gottlieb, Mrs. Selma Bernice	53		86 Longfellow Rd.
Gould, Loren Nelson	53		17 Darby
Graf, Robert Edmond	52	Southbridge	8 Oliver
Gray, Patricia Burritt	52	Plainfield, N. J.	Blakeslee House
Greenbaum, Joan Beverly	54	Elizabeth, N. J.	Blakeslee House
Greene, Howard Herman	53	Millbury	
Greenlaw, Robert Wilson, Jr.	V 52		14 Oread
*Grundberg, Cedric BoGunnar	53	Stockholm, Sweden	41 Coburn Ave.
Gullberg, Marjorie Annette	53		789 Grove
Gurry, Donald Bruce	55	New York, N. Y.	Estabrook Hall
Gustafson, Pauline Marilyn	53		29 Woods Ave.
Gustafson, Richard Lyman	52		151 Murray Ave.
Guthrie, Sally Irene	55		8 Prudence
Hackett, Charles Edward, Jr.	V 53	Wilbraham	13 Gates
Haddad, Raymond	Ph g		2 Dartmouth
Haggar, Victor William	V Ed g		3 Cutler
Haglund, Agnes Carolla	G S	Waterville, Me.	8 Crystal
Haidukiewicz, Phyllis Evelyn	53	Gardner	Woodland House
*Hall, Ann Such	BA s		12 Walnut Hill Dr.
Halloran, John Francis	52	Roxbury	
Hammer, Ernest	54	Port Chester, N. Y.	59 Maywood
*Handleman, Chester	V Ed s		39 Terrace Dr.
Hayhow, Ernest Herbert	V 52	Lowell	6 Richards
Harper, Roy Lees, Jr.	54		21 Woodward
Harris, Alan	G F	Bolton, Lancashire, England	43 Woodland
Harris, Robert William	53		17 Devens Rd.
Haslam, Beverly	53	Cranston, R. I.	Fanning House
Hatfield, Buell Gilbert	V 53		13 Conger Rd.
Hausrath, William Frederic	53	Lowell	32 Richards
Hayeck, George Najeb	52		20 Ridge
*Hayhow, Ernest Herbert	V 52		519 Burncoat
Hebert, Raymond Joseph	V 54	Leominster	20 Gates
Hegvig, Virginia May	V 52		9 Frank
Herman, John Bernard	55	Millbury	
Heroian, Ara Paul	55		165 Dewey
Hersch, Charles	Ps g	Brooklyn, N. Y.	6 Richards

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Hickey, Joseph Edward, Jr.	54	Holden	
Higgins, Mary Ann	54	Scarsdale, N. Y.	Woodland House
Hightaian, Louise	53		104 Burncoat
Hill, Barbara Ann	52	Southboro	Blakeslee House
Hilmi, Nahida Rafiq	52	Baghdad, Iraq	Woodland House
Hirshberg, Yale Albert	52		89 Granite
*Hoaglund, Ralph Donald	V 52		9 Monica Rd.
Hoffner, Herbert Howard	55	Arverne, N. Y.	Estabrook Hall
Hokans, Corlyn Barnes	V 52	Westboro	
Hokanson, Leonard Ray	52		31 John
Holden, Raymond Henry	V Ps g	Cranston, R. I.	5 Cristy
*Holloran, John Stephen, Jr.	V H s	Monroe, N. Y.	6 Wyman
Holmes, Robert Philip	55	Whitinsville	
Holton, James Vernon	52	Houston, Texas	16 Marble
Hook, Grace Louise	53		62 Clark
Hope, James Anthony	Ec s	Waban	27 Wyola Dr.
Hopkins, Barbara Louise	53	Holden	
Howard, Irving Edward	H g		3 Homestead Ave.
Howatt, Robert Atherton	52	Cambridge	
Hudson, Valeda Carolyn	54		45 Andover
Hug, Yolanda Agnes	53	Auburn	
Hughes, Vincent Leo	Ch g		20 Hancock
*Hunter, Wilbur William	V G F	Johnstown, Pa.	145 Woodland
Husain, Azra Afzal	G g	Karachi, Pakistan	Fanning House
Hutchinson, Charles Kenneth	55	Milford	Estabrook Hall
Hutchinson, Mary Elizabeth	52	Clinton	
Hutchinson, Richard Charles	53	Sutton	
Hyman, Naomi Cutler	54	New Haven, Conn.	Woodland House
Hyytiainen, Helen Marie	52	Auburn	
Iaccarino, Rose Angela	55		340 Plantation
Iarussi, Louise	55	Framingham	Blakeslee House
Ingebretsen, Mrs. Barbara Christeen	52		1 Everett
Ingebretsen, Edward Martin	V 52		1 Everett
Ireland, Harry Ottway	V 52	Danbury, Conn.	35 Maywood
Ismail, Abdul Rashid	54	Bombay, India	11 Charlotte
*Jacobson, Maxine Helen	54		20 Wamsutta Ave.
Jaffe, Kayla Miriam	Ps g	Brooklyn, N. Y.	6 Richards
Jamron, Marvin Allen	52		929 Pleasant
Jennings, Stephen Lester	53	Bethesda, Md.	17 Crystal
Jerome, Henry Francis	Ed g		28 Circuit Ave.
Jeyasingham, William Luther	G F	Manipay, Ceylon	46 Tirrell
Jeznach, Raymond John	Ed g		15 Taylor
Jigarjian, Harold Charles	52	Whitinsville	
Johnson, Albert Leonard	53		133 Clark
Johnson, Anna Ottoson	54	Holden	
Johnson, Anne Carolyn	54		1 Ivanhoe Rd.
Johnson, Mrs. Arlene Fouracre	52	Leicester	Marshall St.,
Johnson, Arne Jacob	V 52	Princeton	
Johnson, Margery Ruth	H TF		96 Woodland
Johnson, Nancy Ann	55		447 Grove
Johnson, Peter Christopher	54	East Orange, N. J.	16 Marble
Johnston, Norman	V 53	Spencer	
Jones, Louis Allman	Ch g		26 Woodland
Jones, Mary Kathryn	53	Southbridge	
Jones, Patricia	54		267 Salisbury
Jungmann, Henry	53	New York, N. Y.	13 Gates
Kalat, Mrs. Joan Odlin	Ec g		Nola Dr., Holden
Kallio, Reino Ilmari	Ed g		18 Kosta
Kaloosdian, Aram Robert	52	Watertown	
Kamandulis, Donald Algerd	52		10 Strathmore Rd.
Kaplan, Bernard	V Ps g		30 May
Kaplan, Mrs. Edith Freund	Ps S		30 May
Karagheusian, Paul	52		18 Laurel
*Karamourtopoulos, Charles	V 52		31 Chatham
Kasabian, Robert John	52		38 Terrace Dr.
Kastenbaum, Alice	Ps g		5 Einhorn Rd.
Katayama, Tomohei	Ec g	Tokyo, Japan	4 Englewood Ave.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Katz, Evelyn Ann	52	Brookline	
Katz, Ruth Marion	52		1A Agawam
Kavoogian, Dorothy Sitinick	53	Shrewsbury	
Kearns, Margaret Mae	55	Spencer	
Keenan, Elizabeth Louise	54		10 Edwidge
Kelland, Frank	G g	Keene, N. H.	26 King
*Kelleher, Mrs. Dorothy Bradford	Aud.		4 Everett
Kelleher, Geraldine Mary	52		163 Mayfield
Kelley, Justin John	V Ed g		28 Hooper
Kelly, Maureen Ellen	54		62 Sever
Kerber, Raleigh Burton	V 52		186 Ingleside Ave.
Kimura, Masami Lawrence	V 53	Hilo, Hawaii	11 Charlotte
King, Robert Edward	V 52	Leicester	
King, Robert Fabian	55	Holden	
Kirby, George Francis	V 54	Glen Burnie, Md.	Estabrook Hall
Kirshenbaum, Sanford Marshall	55	Providence, R. I.	Estabrook Hall
Kistler, Walter Amandus	52	West Boylston	926 Main
Kittredge, Margaret Anne	54		72 Morningside Rd.
Klainer, Stanley Melvin	53	Chestnut Hill	
Klein, Sidney	V 52		18 Claremont
Kline, Nathan Schellenberg	V Ps g		P. O. Box 57
Knowlton, George William	V 54		470 Salisbury
Kolodziejczak, Adam	Ch g	Poland	620 Southbridge
Komisar, Agnes	V En s	So. Hadley Falls	305 Belmont
Konjoian, Isabel Katherine	54		27 Russell
Koprowska, Martha Helen	V 52	Southbridge	
Koutsoubas, George William	53		10 Newton Ave.
Kozak, George	52	Upton	
Krajewski, Edward Joseph	53		5 Norwood
Kronberg, George Herbert	54		6 Deering Dr.
*Krus, Donald Max	V Ps g	Haledon, N. J.	28 Clive
Labovites, Costas James	52		82 Clayton
Laine, Norman Raymond	55		42 Velander
Laing, Jean Barbara	G F	London, England	7 Wheeler Ave.
Lamb, Bert Woodworth, II	52	Greenport, L. I., N. Y.	8 Silver
Lambros, Frank Harry	V 54	Dudley	339 Main
*Lamusta, Michael William	54		270 Belmont
Lane, John Everett	V Ps g		Worc. State Hosp.
Lane, Michael Robin	53	Natick	
LaPierre, Richard Alan	52	Gardner	
Larava, Ann Teresa	53		40 Kingsbury
Larson, Jane Louise	53	Leicester	
Lasmane, Elfrida	53	Holden	
Latendress, Hazel Marion	G F	Mohegan, R. I.	57 Gates
Lauler, John William, Jr.	53	Jersey Shore, Pa.	48 Downing
Lavendier, Raymond Thomas	V Ec s		7 Mt. Vernon
Lawson, Hugh Harold	V 52	Warwick	38 Benefit
Lawton, Robert Earl	54	Loudonville, N. Y.	35 Maywood
Layng, Wilma Odell	52		226 May
Lazarus, George Milton	54		30 Irving
Lee, William John	V H S		1 Norwood
Lefebvre, George Raymond	V H g		8 Glenwood
Leger, Lucille Therese	53	Fitchburg	
Lenentine, Charlotte Maxine	H S	Monticello, Me.	54 Morningside Rd.
LeVasseur, Virginia Ann	54		7 Wakefield
*Levine, Eleanor Zelda	53		71 Russell
Levison, Peter Koleman	54	Brookline	59 Maywood
Levo, Charles Gradie, Jr.	V H g	Many, La.	21 Ives
*Lindberg, Bruce Alan	54	West Boylston	
Lindberg, Charles Arthur	V 54		12 Crystal
Lindstrom, Robert David	52		27 Saxon Rd.
Lingner, Robert Earle	54		220 Webster
Lipton, Herbert	V Ps F	Cambridge	
Litsky, Paulette Ruth	54	Waterbury, Conn.	Woodland House
Lockhart, John	V 53		8 Quincy
Lorys, Josephine Elaine	H g	Great Barrington	52 High
Lougee, Mrs. Clara Rom	G g	North Grafton	
Lowney, Gerald Mansfield	53		50 Barclay
Lubarsky, Paul David	55	Quincy	Estabrook Hall

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Lubowitz, Herbert	54		10 No. Woodford
Lumsden, William Robert	V 54	Douglaston, L. I., N. Y.	Estabrook Hall
Lynskey, Paul Joseph, Jr.	53	Clinton	
MacCarthy, Ann Kathleen	53		95 Commodore Rd.
*MacDonald, Robert Eldon	54		5 Rockwood Ave.
MacFarland, Jameson David	V 52		182 Millbrook
Madaus, Gerald Francis	Ec g		177 Lincoln
Maghak, Noel John	52	Baghdad, Iraq	11 Charlotte
Malankowski, Anthony John	V 54	Maspeth, L.I., N.Y.	364 Lincoln
Mallen, Phyllis Toby	54		6 Farnum Ter.
Mangano, James John	53		417 Shrewsbury
Mann, Leo Leamy	V 54	Turners Falls	10 Brewster Rd.
Mann, Stanley Joseph	54		22 Summerhill Ave.
Manning, Grace Anne	53		1 Rosemont Rd.
Manoog, John Charles, Jr.	52		70 June
Mansfield, Robert William	V 52		6 Briarcliff Rd.
Marcus, Gerald Golden	52		5 Havelock Rd.
Marion, Raymond Joseph	V H g	Spencer	
Marks, Ronald Richard	53	Waban	40 Richards
Marshall, Norman Barry	V B S	Brooklyn, N. Y.	8 Oliver
Martel, Norman Albert	53	Webster	
Martel, Raymond Joseph	Ed g		10 Dallas
Martin, Alice Louise	55		45 Merrick
Martin, Curtis Vanderbilt	V G S	Leicester	
Martin, Richard Raymond	V 53		19 Oliver
Mate, Brian	55	Rockaway Beach, N. Y.	Estabrook Hall
Matzat, Willi Paul Gerhard	G g	Dortmund-Kirchhörde, Germany	40 Richards
Maung, Thein	G g	Rangoon, Burma	86 Woodland
McAulay, Robert Joseph	V 52		187 St. Nicholas Ave.
McCourt, James Carson	52		66 Greenhill Pkwy.
*McCoy, Charles Allan	V RL s		173 St. Nicholas Ave.
McDonald, Joanne	52	Westboro	
McDonough, Anna Theresa	53		9 Holland Rd.
McGrath, Dorothy Bernardine	53		68 Berwick
McGregor, Ina Louise	B S	St. Andrews, Jamaica, B.W.I.	7 Hawthorne
McGuire, John Alfred	V Ec TF		17 Claremont
McKie, Margery Anne	54	Millbury	
McLean, Walter Shaw	V Ec S	Detroit, Mich.	6 Jones, Spencer
McLean, William Andrew	H S		29 Westfield
McManus, Francis Joseph	54		18 Sturgis
Meade, John Carberry	V 53	Canton	
Medlinsky, Harvey Marcus	54		78 June
Mee, John Courtney	52	Framingham Centre	
*Meegan, John Ambrose	Ed s		7 Greybert Lane
Meissner, Philip George	V 52	Little Neck, N. Y.	40 Richards
Mendelsohn, Joseph Meyer	V 52	Revere	6 Charlotte
Menelly, Ernest Robert, Jr.	V 53	Waltham	
Merriam, George Henry	V H g		171 Woodland
Meskunas, John Peter	V 52	Waterbury, Conn.	16 Marble
Metivier, Robert Charles	V 55		57 James
Mettler, John Charles	Ec TF	Charleston, S. C.	74 Florence
Michalski, Jan Kasimir	54		15 Vernon
Miller, Lois Marian	53		18 Dellwood Rd.
Milton, Barbara Ann	53		151 Brookline
Miner, John Burnham	V Ps g		8 Fairfield
Mioduszewski, Edmund Boniface	52		64 Ward
Misch, Robert Caesar	V Ps g		3 John
*Mitchell, Mary Patricia	52	Gilbertville	
Mitchell, Paul Beach	V H g	Gilbertville	
Mohr, Tom Leopold	H S	New York, N. Y.	9 Stoneland Rd.
Moiles, Shirley Louise	55	Oxford	Blakeslee House
Mongilio, Robert Anthony	V 52	Millbury	
Morales, Carmen Ofelia	52	Mexico-City, Mex.	Woodland House
Moran, Joseph Michael	Ed g		209 Ingleside Ave.
Morant, Ricardo Bernardino	V Ps TF	New Britain, Conn.	6 Richards
Morey, Howard Ralph	V 52	Fiskdale	
Morganstein, Justin Willard	55	Fall River	Estabrook Hall

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Morgantini, Dean Francis	54	West Pittston, Pa.	Estabrook Hall
Morrison, Daniel Joseph	V 52		104 Darrow
Morrison, Walter Kenneth	V G g	Waltham	145 Woodland
Moschos, Iphigenia	54		21 Morningside Rd.
Mosher, Edward Francis	55	Rockland, Me.	Estabrook Hall
Mrosek, George Ernest	V 52	Manchester, Conn.	Marty's Trailer Pk.
Mulholland, Thomas Basil	V Ps g	Fitchburg	40 Richards
Mulvey, Philip Francis, Jr.	53		130 Fairmont Ave.
Murphy, Cornelius Bernard	V Ch g		37 Enfield
Nagle, Mary Elizabeth	54		138 June
Nasse, George Nicholas	V 53	Southbridge	
Navaroli, John Anthony	52	Clinton	
Nazemi, Said	55	Teheran, Iran	Estabrook Hall
Neary, Mrs. Beatrice Loretta	Ec F		193 Park Ave.
Neiditz, Marvin Myer	52	Hartford, Conn.	36 Richards
Nelson, Herman L.	V G g	Des Moines, Iowa	974 Main
Nelson, Joan Ellen	55		112 Mill
Nelson, Richard Andrew	53		45 Uncatena Ave.
Nelson, Robert Alfred	V Ec g	Norwood	
Nester, Chloe Adele	53		14 W. Chester
Newman, Daniel Mordecai	54	Brooklyn, N. Y.	Estabrook Hall
Nicholas, Violette	52		17 Goulding
Noble, Ralph Everett	V 52	Whitinsville	
Nordwell, Clifford Irving	52	Shrewsbury	
Norman, Gerald Earl	53		9 Sherwood Rd.
Novick, William John	53		4 Chapin
Novitch, Richard Leonard	52	Marlboro	
Nylin, Marilyn Bernadine	53		119 Airlie
Nyline, Karl Fredric	55		14 Hastings Ave.
O'Brien, Paul Vincent, Jr.	52	Hardwick	
O'Brien, William Paul	54		139 Lincoln
O'Connell, John Joseph	52	Westboro	
O'Donnell, Albert Burke, Jr.	V 52	Shrewsbury	
Ohara, Harold Tadashi	54	Pearl City, Hawaii	Estabrook Hall
Ohtsuka, Noyuri	H F	Tokyo, Japan	15 Brookline
Onorato, Nicholas Louis	V Ec g		62 Wellington
Osgood, Samuel Maurice	V H TF	Elko, Nev.	7 Kilby
Ostergaard, Robert Alden	52	North Grafton	
Pallas, Chris George	55		58 Andover
Pappas, Steve Charles	53	Southbridge	18 Shirley
Pappas, William James	V Ec g	Chicopee Falls	40 Richards
*Parda, Stanley Chester	54		2 Bigelow
Parsley, Elaine June	53		360 Mill
Patronas, Eleas William	V 52		59 Dorchester
Patterson, Janet Ann	52		17 Rockdale
Patterson, Paul Marsh	V 52		3 Lily
Patterson, Robert Hornby	54	Attleboro	Estabrook Hall
Patterson, Wayne Everett	53	Attleboro	16 Marble
*Paul, Marcia Maxine	52		15 Kensington Rd.
Pawlikowski, Daniel Felix	V G S		17 Hammond
Pawling, John William	G S	Darby, Pa.	40 Richards
Peacock, Harold Lee, Jr.	54	Waldoboro, Me.	13 Gates
Pearson, Pehr Albert	V 52		24 Chester
*Pearson, Philip Richardson, Jr.	V G g	Walpole	11 Thayer Ct.
*Peepas, Mary	En s		6 Sweet Briar Lane
Peirce, David Allen	54		2A Bellingham Rd.
Pelletz, Stanley Jordan	55		76 Vassar
Perron, Richard Waldo	V 52		18 Rena
Perry, Jane Frances	54		154 Lovell
Perry, Waldo Everett	V Ed g	Holden	
Persson, Anita Emilia	53	Lidingö, Sweden	16 Massachusetts Ave.
*Peters, Donald Daniel	53		332 Coburn Ave.
Peterson, Robert Andrew	53		156 Vernon
Petrakogeorges, Heraklis G.	53	Clinton	5 Florence
Petrell, Edward Francis	V 52	Rockland	35 Maywood
*Petrell, Ralph Joseph	52	Rockland	16 Marble
Philcox, Frederic Richard	55	Northboro	

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Phoenix, Ernest Gerard	V 53	Troy, N. Y.	39 Pleasant, Leicester
Polymeros, John Constantine	53	Clinton	
*Pomerantz, Louis	V FA s	Brooklyn, N. Y.	766 Main
Ponty, Louise Dolores	52		129 June
*Porter, Wayne, Whitimore	53	Wolcott, N. Y.	31 May
Pouliot, Roger Ronald	55	Willimansett	Estabrook Hall
Prensner, Richard William	55		43 Forest
Proffitt, Joseph William	H S		53 Wyola Drive
Pugh, Emrys	V H S		130 Woodland
Putnam, George Clinton	52		53 Navasota Ave.
Putnam, Patricia Ann	54		10 Kenwood Ave.
*Rackauskas, Grace Evelyn	55		2 South Ward
Radzik, Rose Marie	53		136 Endicott
Raeff, Mrs. Lillian Gottesman	Ps g	New York, N. Y.	989 Main
Ragoza, Stanley	V 52	Leeds	16 Marble
Randall, Richard Rainier	V G F	Chevy Chase, Md.	50 Woodland
Reddington, Eleanor Burnap	55		8 Dixon Ave.
Richard, Gerard Joseph	52		31 Grand
Richards, Janet Mary	Ed g	Fitchburg	16 Germain
Richardson, Norman James	52	Braintree	8 Oliver
Richason, George Robert, Jr.	V Ch g	Amherst	
Rimbach, Marella Deighton	53	Sterling	Woodland House
Rimbert, Sylvie Jeanne	G F	Paris, France	24 Shirley
Riordan, Joan Frances	55	Holden	
Rizkalla, Janet Catherine	54		15 Acton
Roberts, George Milton	54	Grafton	
Roberts, Joan Bernice	55	Millbury	
Robitaille, Francis Joseph	V H g	Holyoke	766 Main
Roche, Claire Maureen	52		493 Park Ave.
Rodier, Ruth Elizabeth	54	Oxford	
Rollins, Joseph	V 54	Leicester	
Rose, Barbara Elizabeth	52	Watertown, Conn.	Woodland House
Rosenbaum, Marvin	54	Fitchburg	
Rosenblatt, Melvin Morton	52		38 Woodford
Rosengart, Carl Lester	55	Arverne, N. Y.	Estabrook Hall
Rothblatt, Helaine Lois	52	Brookline	
Royston, Patricia Mae	55	Auburn	
Rudman, Paul Edward	55		17 Bluebell Rd.
Rudomanski, Andrew Charles	54	Stamford, Conn.	142 Woodland
Russell, David Alan	55	Auburn	
Ryan, James Grogan	52	Springfield	15 Stoneland Rd.
Sachs, Edward	54	Bridgeport, Conn.	Estabrook Hall
Sachs, Howard Miller	52	Bridgeport, Conn.	36 Richards
*Sadler, Norman Irwin	Ed g	Providence, R. I.	7 Kilby
Saitas, Alexander John	52	Putnam, Conn.	35 Maywood
Salem, William John	V 53		394 Grafton
Salo, Lennart Reino	55		45 Erie Ave.
Samara, Joseph	V 52		73 Orient
Sarando, Minerva Mildred	54		12 Page
Sardonini, Joseph Michael	55	Milford	Estabrook Hall
Saunders, Ralph Howard	54		3 Kingsbury
Scannell, Marguerite Ann	52		4 Judson Rd.
Scannell, William Gerald	55	Waterford, Ireland	Estabrook Hall
Scarborough, John Robert	V 54		56 Cohasset
Schanberg, Saul Murray	54	Clinton	59 Maywood
Schneider, Charles	52	New York, N. Y.	36 Richards
Schofield, Phyllis Marie	55	Northboro	Fanning House
Schotte, Carol Hazel	55		18 Brighton Rd.
*Schou, Barbara Johanna	55	West Acton	Blakeslee House
Schulhoff, Celia Lila	54	Athol	Woodland House
Schulhoff, Diane	55	Athol	Blakeslee House
Schunmann, Dorothy Ann	55	Millbury	
Schwebel, Marlene June	54	Brooklyn, N. Y.	Woodland House
Schweitzer, Jerome Howard	55	Wellesley	Estabrook Hall
Scola, Daniel Anthony	52		21 Branch
Seale, Thomas Scott	55	Newton	Estabrook Hall
Seder, Ivan Ellis	V 52		6 Zenith Drive
Senanarong, Sawat	G g	Bangkok, Thailand	46 Tirrell

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Seymour, Jean Macdonald	54	South Lancaster	
Shamoian, Charles Anthony	54		28 Belmont
Shapira, Nathaniel Abram	55	Brockton	Estabrook Hall
Shapiro, Claire	55		908 Main
Shaughnessy, Anne Camilla	Ed g		25 Maywood
Shaw, Ralph Bernard, Jr.	V 55	Taunton	Estabrook Hall
Shepeluk, Wasily, Jr.	55		61 Rodney
Sher, Esther Frances	53		235 Cohasset
Shirley, Harry Pickford, Jr.	54		6 Maravista Rd.
Showket, Ibrahim	G g	Baghdad, Iraq	76 Maywood
Showket, Mrs. Subhia Mikdadi	53	Baghdad, Iraq	76 Maywood
Siegel, Rolland V.	54	New York, N. Y.	74 Florence
Sigalis, William Charles	55		10 Cottage
Silver, Sallye Joyce	54	Larchmont, N. Y.	Blakeslee House
Silverman, Jack Leon	54	Chestnut Hill	40 Richards
Simon, Arleen	54	Passaic, N. J.	Woodland House
Simonian, Harry	52	Whitinsville	
Simonian, Jean Marion	54		2 Hudson
Sisson, Robert Eugene	52		29 Hillcroft Ave.
Skrypa, Michael John	V Ch S	Woonsocket, R. I.	6 Freeland
Slepian, Howard Joseph	Ps g	Brooklyn, N. Y.	30 May
Smith, Arthur Joseph	V 52		101 Merrick
Smith, Harold Dwight, Jr.	52		34 Canterbury
Smith, Margaret Augusta	52		70 Coolidge Rd.
Smith, Raymond Rodolphe	V 53	Westboro	
Smith, Stephen Adams	V 52	Grafton	
Smolski, Chester Edward	V G g		989 Main
Solomon, Paul	V Ps F	Palmer	
Solomon, Seymour Arnold	55		11 Russell
Somers, Robert Charles	V 52	Auburn	25 Camp
Sorvo, Paul John	53	Millbury	
Spear, Everett Richard	54	Milford	
*Squire, Joan Perley	54	Stafford Springs, Conn.	Fanning House
Stasiewicz, Henry Joseph	V Ed g		18 Epworth
Stearns, Harlan Emory	52, B g	Winchendon	Estabrook Hall
Steeves, Earl Thomas	Ed g	Moncton, N. B., Can.	17 Crystal
Steeves, Marilyn Joan	53	Gardner	Woodland House
Steinberg, Robert Malcolm	V 52	Norwalk, Conn.	36 Richards
Steinbrecher, Stephen	55	Westport, Conn.	Estabrook Hall
Steingold, Kenneth Harold	52	Pawtucket, R. I.	36 Richards
Stekler, Herrmann Otto	55	55 Wachusett, Worcester	Estabrook Hall
Stern, Austin	53	Coral Gables, Fla.	35 Maywood
Stern, Kurt Heinz	V Ch F	Newark, N. J.	6 Castle
Sternlof, Paul William	53		14 Kosta
Stevens, Allison Page	V Ed g	Auburn	
Stewart, Lauraine Mae	54	Dalton	Fanning House
Stochaj, Eleanor Magdalene	B g	Webster	24 Gates
Stolnacke, Richard Arthur	52		41 Tatman
Stone, Henry Washington, Jr.	V 53	Oakham	
Stout, Gretchen Beatrice	54	New York, N. Y.	Woodland House
Strandberg, Verner Raymond	52		1 Knapp Ave.
Strates, Basil Stavros	52	Philiates-Epirus, Greece	5 Florence
Stratton, David Kent	52	Maplewood, N. J.	16 Marble
Strozina, Richard Thomas	V 53		215 Beacon
Sturrup, William Henry	V 52		55 Wachusett
Sullivan, Neil Joseph	54	Gilbertville	
Sullivan, Richard Patrick	52		1 Conger Rd.
Sullivan, William Thomas	53	Braintree	26 Sever
Surprenant, Albert Wilfred	V 53	East Brookfield	
Suss, Enid Marilyn	55	New York, N. Y.	Blakeslee House
Sussman, Richard Fredric	53	Mt. Vernon, N. Y.	36 Richards
*Sweenie, Harold Gordon	V 53	West Millbury	
Swenson, John Henry	BA s	Westboro	
Symonds, Merrill Augustus	V H g		98 Ararat
Szerlag, Genevieve Agnes	53	Northbridge	
Tait, Jeanne	53		10 Suburban Rd.
Tateosian, John	55		129 Belmont
Tavel, David Zalman	H S	Dorchester	3 Richmond Ave.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Taylor, Alvin Elliott	55	Deering, N. H.	Estabrook Hall
*Tenney, Ashton Munroe	Ps g	Gardner	Worc. State Hosp.
Terrio, Frederick Joseph, Jr.	55	Berlin	
Thamel, Theodore Stone	54		27 Langdon
Thayer, Constance	53	North Oxford	Blakeslee House
Theriault, Frank Noel	54		38 Woodland
Thibideau, Ronald William	V 52	Roxbury	34 Gates
Thienprasitthi, Praja	55	Bangkok, Thailand	Estabrook Hall
Thomas, Daniel Walter	53		5 View
*Thompson, Alfred William	V 55		4 Hooper
Thurston, Anthony Warren	V 53		111 Austin
Tibbetts, James Herbert	54		6 Salisbury Crag
Tibbetts, Robert Austin	55		6 Salisbury Crag
Tolley James Little	H g	Cincinnati, Ohio	8 Norwood
Tonseth, Harold Leif Eric	54	Marlboro, N. H.	37 Forest
Tracy, Holmes Vinton	55	Dudley	
Trask, Harvey Julian	55	Upton	Estabrook Hall
Tremblay, Gilbert Paul	55	Leominster	
Tromovitch, Theodore Albert	53		24 Orient
Trowbridge, Anthony Dyke	V 55		12 Tuller Rd.
Tucker, Grady Oscar, Jr.	G F	Campbellton, Fla.	8 Crystal
Turnbull, Elliott Dean	53	Clinton	
*Turner, Otis Alonzo	V Ec S	Glendale, Ohio	21 Ives
Ungar, Judith Ann	53	Brooklyn, N. Y.	Woodland House
Van de Bunt, Wouter	G S	Rotterdam, Netherlands	939 Main
*Vanden Akker, Maynard	V Ec s	Whitinsville	
VanderPyl, Adrian Weston	V G S	Rutland	
vanLeeuwen, Adrian Eric	54		9 Euclid Ave.
Vigneault, Robert Edward	52		1 Denny
Villa, Luis Alberto	55	Medellin, Colombia	Estabrook Hall
Von der Heide, John Thomas, Jr.	V 53	Scarsdale, N. Y.	16 Marble
Von Holt, Henry William, Jr.	V Ps F	Portland, Oregon	11 Hawthorne
Vuona, Joseph Paul	52		13 Groton Pl.
Walker, Bertram Braithe	53	Moneague, Jamaica, B.W.I.	3 Palmer
Walsh, Albert Joseph	V 52	Chicago, Ill.	14 Oberlin
Warden, William Ernest	55	Oxford	
Ware, Barbara Ann	55		32 Irving
Warms, Harry James	V 53		18 Fairhaven Rd.
Warwick, Joan Edna	55	Upper Saddle River, N. J.	Blakeslee House
Wason, John Roberts	Ed g		57 Sylvan
Waszkiewicz, Chester Stephen	V G g		62 Prouty Lane
Waterman, Irma	53	Attleboro	Woodland House
Waterman, Nancy Mayo	G S	Hanover, N. H.	7 Hawthorne
Watkins, Helen Eugenia	52		110 Barnard Rd.
Way, Richard Lawrence	55	Greenfield	Estabrook Hall
Weed, Amorette Grace	53	Westboro	
Weiner, Paul	V Ec g	Malden	40 Richards
Weinstein, Bernard Meyer	V H g		5 Midland
Weir, Edward Patrick	V H S	New Haven, Conn.	766 Main
Weller, Arnold Clare, Jr.	54	Rutland	
*Wells, Bruce Edward	54		59 Clark
Wentworth, Raymond Charles	55		111 Clark
West, Gilbert Lorenzo, Jr.	54	Pittsfield	16 Marble
Wetherbee, David Kenneth	V B S		11 Dallas
*Wetmore, Melvin Abram	V 52	Norwalk, Conn.	8 Oliver
Wheeler, David	52	Revere	
Wheeler, Diane Eleanor	53		11 Dover
Wheeler, Dorothy Ann	53		11 Dover
Wheeler, Roy Harold	54		6 Cheever
White, Richard Andrew	V 53	Leominster	
Whitney, Alden Eames	55		4 Saxon Rd.
Whitney, Dorothy Nina	55	Oxford	
Whitney, Richard Dana	55	Paxton	
Wiejaczka, Darryl Alexander	V Ed g	Dalton	40 Richards
Wiener, James Saul	52		92 Houghton

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
*Wiener, Norma	53		51 Richmond Ave.
Willard, Kenneth Leslie	V Ed g	Fitchburg	
Williams, Harvey Louis	54		538 Mill
Williamson, Janet	54		3 Wentworth
*Wilson, Carol	Ed g		11 Berwick
Wilson, Kenneth Robert	55	Townsend Harbor	Estabrook Hall
Wilson, Mary Tewksbury	Ps g	Amsterdam, N. Y.	21 Fruit
Wilson, Mrs. Priscilla Rosalie	52		89 Eunice Ave.
Witt, Albert Vito	V 53	Leicester	
Wood, Alden Stokes	V 53	Melrose	2 Claremont Sq.
Woodall, John Arden	Ed g	Paxton	
Wray, Norman Leslie	54	Wilkinsonville	
Yakutis, Robert Kasimir	53		20 Crescent
Young, Mrs. Helen Troy	53		53 Elm
Young, Manoog Solomon	V H g	Brookline	
Young, Maurice	55	Arverne, N. Y.	Estabrook Hall
Zaltas, Arnold Irving	55	Natick	Estabrook Hall
Zetterlund, Russell Paul	53		116 Purchase
Zimavicius, Jurgita Constance	53		853 Main
Zitowitz, Lester	52		172 June
Zmyslowski, Walter Peter	52		28 Marion Ave.
Zolnowski, Elizabeth Ann	55		59 Seymour
Zukowski, Walter Henry	V Ec g		119 Morningside Rd.

II. GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING SECOND SEMESTER ONLY

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Atkocius, Donald A.	V 55		419 Millbury
Atwood, Richard Forest	Ch s		6 Autumn
Belliveau, Robert Rock	53	Auburn	
Besnia, Howard John	Ed g	Sterling Jct.	
Bianchi, Albert Mark	55		12 Rollingwood Dr.
Bowles, Gerry George	55	Berlin, N. H.	Estabrook Hall
Brooks, Harriet	Ed g		78 May
Brown, Richard Carson	Ch s		1 Tallawanda Dr.
Clark, Burton Everett	Ch s	Sutton	
Conant, Bryant Lee	55	Auburn	
Cowen, Mrs. Anna Wunsch	Ps g	Providence, R. I.	
Daly, Frederick Robert	55		6½ Whittier
Doyle, Henry M.	Ed g	Medway	
Doyle, Louis Logue	55	Chestnut Hill	Estabrook Hall
Ellison, Herbert Richard	55		54 West Boylston Dr.
Fahey, Lawrence	52	Brooklyn, N. Y.	8 Oliver
Fitzpatrick, Robert Joseph	Ch s		310 Mill
Fleming, Stephen Joseph	54	Clinton	
Florer, Herbert Washburn	V 55	Wellesley Farms	
Furth, Adolphe	Ch s		10 Shaffner
Gaetz, Theodore Edward, Jr.	En s		115 West
Gazonas, Aristotle George	V H g	Norristown, Pa.	8 Sycamore
Gibson, Alfred Littel	Ch s	Newport, R. I.	766 Main
Grossman, Hedda Ruth	55	New York, N. Y.	150 Woodland
Hebert, Ralph Norman	55		2 Nuttall Lane
Hokans, David Hamlin	V Aud		61 Everard
Hubbard, Winifred Ray	En s	W. Boylston	
Kessler, Frank David	Ch s	Shrewsbury	
Klein, Mrs. Norma	H g	Leominster	
Koulisis, Prokopios S.	55		140 Exchange
Lacouture, Alphonse Leon, Jr.	53	Millbury	
Lamm, Irwin Stuart	55	New York, N. Y.	Estabrook Hall
Leavitt, Phillip Arthur	V 53	New York, N. Y.	875 Main
Lebeaux, Mrs. Lucille Gardner	RL s		15 Edgewood
Lemire, Joseph Edward	Ch s		21 Glendale
Letteri, Joseph Paul	54	Meriden, Conn.	
Manson, Joseph John	55	Arnold, Missouri	5 George, Shrewsbury
McGranaghan, William Joseph	V 53	Northboro	
McNamara, Joseph Francis, Jr.	V 53		8 May
Melvin, Paul Alan	55		216 West Mountain
Mendoza, Walter Edward	V Ed g	Millis	
Merola, Lorenzo Orlando	V Ch s		529 Lake Avenue
Nazarow, John Peter	V 53	Gardner	
Neri, Rudolph Orazio	B s	South Barre	30 Chestnut
Seewald, Joseph H.	V Ps s		32 Oberlin
Sevigny, Allen Joseph	V 53	Newtonville	32 Oberlin
Smith, Marc Paul	55		3 Tahanto Road
Spalding, Judson W.	Ch s		875½ Main
Sundquist, Birgit Marie	55		53 Uncatena Avenue
Tucker, Edwin Charles	Ch s		380 May
Willar, Arline	RL s		9 Chamberlain Pkwy.
Wolske, Janet Frederika	54	Holden	

III. STUDENTS IN RESIDENCE LESS THAN ONE SEMESTER, 1951-52

Albert, Leon M.	V 53
Andrews, Nicholas Vasil	V BA s
Barnard, David Ware	V 54
Bowes, Maurice Gerhard	V 52
Brodeur, Jeanne Rosalie	53
Callahan, George	V 55
Capra, Dante V.	V Ps s
Griffin, James Phillip	Phil s
Grossman, Sara Ruth	54
Kishbauch, Terrell Atwood	54
Maynard, William Snyder	V 52
McMurray, Martin Everett	G S
Morway, Robert Thomas	V Ec g
Nylund, Arnold Wilhelm	V 54
Officer, James Robert	V 53
Porter, Gerald Donald	V 54
Pryor, Robert Edward	V 52
Rodenstein, Lois Marion	52
Schiff, Mortimer Edward	52
Shediack, Joseph Charles, Jr.	B g
Sutherland, David Edward	BA s
Sweeney, Ann	55
Thomas, Norma Ruth	55
Vilandre, Emery George	V 54

IV. SUMMER TERM STUDENTS (1951)

An (*) indicates a student in residence for one session only.

Adams, Harold W., Worcester
*Ahern, Thomas B., New Haven, Conn.
Aisenberg, Claire L., Worcester
*Ambrosi, Louis F., Clinton
*Anderson, Kenneth A., Jr., Worcester
*Angelos, James T., Fitchburg

*Baker, Charles A., Jr., Leicester
Barker, Robert B., Worcester
Barnard, David W., Worcester
*Barrios, Joseph D., Worcester
Benoit, Pierre L., Southbridge
Benson, Peter A., Uncasville, Conn.
*Bernstein, William E., Worcester
*Berry, Dorothy S., Worcester
Blomgren, Bertil C. A., Worcester
*Boucher, Phyllis R., North Grafton
Bowen, Walter E., Spencer
Bowes, Maurice G., Worcester
Brahm, Alexander E., Worcester
*Brandes, Gordon S., Webster
Breen, Philip T., Worcester
Brockelman, Averill L., Worcester
Brooks, Blossom S., Worcester
Brooks, Marvin S., Worcester
*Browning, Walter J., Worcester
*Brunzell, Louise A., Northboro
Budwick, John M., Jr., Gardner
Bumer, Richard F., Worcester
*Burkill, Gracia M., Spencer
*Burton, Warren H., Jr., Fort Defiance, Arizona
*Bush, Everett H., Westfield
*Butler, Philip E., Worcester

*Cain, Richard A., Marlboro
Callahan, George, Worcester
*Cannizzaro, Angela G., Bristol, R. I.
Capra, Dante V., Worcester
*Carey, Robert H., Front Royal, Va.
Carlson, Arnold R., Jr., Worcester
Carney, Francis L., Jr., Bristol, N. H.
Carofanello, Frank A., Worcester
Chang, Jen Hu, Taipeh, Formosa
Chekas, Aldona J., Worcester
*Cheroff, Isidore S., Worcester
*Chew, Margaret S., Evanston, Ill.
Chin, Christopher J. M., Northfield, Vermont
*Christopher, Joseph, Dudley
*Cipriani, Francis P., Clinton
*Clark, Genevieve, Worcester
Cochran, Richard D., Worcester
*Cohen, R. Mildred, Webster
*Collins, Philip J., Worcester
*Corbin, Stefan E., Worcester
*Cormier, Carlton F., Winchendon
Coupe, George A., Worcester
*Cournoyer, Raymond R., Worcester
Cowen, Donald W., Providence, R. I.
Cramer, Howard S., Worcester
*Cushing, John D., Northfield Center, Vt.
Cusson, Richard P., Auburn
*Cutler, Samuel L., Springfield

Daley, Harry E., Jr., Shrewsbury
*Davis, G. Bradford, Worcester
*Davis, James K., Worcester
*Delliquadri, Lawrence M., New Castle, Pa.
*Derosier, Robert F., Leominster
*Diamond, Richard, Athol
*Dillon, John C., Harvard
*Dowden, Vera M., Worcester
*Doyle, Henry M., Millis
Drown, Constance S., Uxbridge
Dubickas, Joseph A., Worcester
*Dunkle, John R., Tallahassee, Fla.

Eisenberg, Frederick A., Brookline
Ephraim, Elliot M., Providence, R. I.

*Fairbank, Margaret W., Worcester
*Farnsworth, Calvin B., II, West Boylston

*Fesuk, Stephen B., Worcester
*Fitzmaurice, Henry F., Worcester
*Foley, Joann M., Worcester
*Forand, Lois M., Worcester
Fouracre, Arlene J., Northboro
*Fraga, Louis M., Worcester
*Freile, Alfonso J., Forest Hills, N. Y.

Gadomski, Stanley J., Clinton
Gadon, Joseph I., Cranston, R. I.
*Gardner, Lucille T., Worcester
Gay, Walter I., Southbridge
*Giannini, Louis D., Worcester
*Goodale, Paul A., Leominster
Goodman, Thomas L., Harrison, Maine
*Goodwin, William B., Worcester
*Gordon, Harold B., Rutland
*Goss, Robert W., Fitchburg
Graf, Robert E., Southbridge
*Griffin, Carl R., Jr., Rutland
*Grodberg, Emil H., Worcester
Grundberg, Cedric B., Worcester

*Haglund, A. Carolla, Waterville, Me.
*Hamilton, Elaine M., Worcester
*Hamilton, Mrs. Helen M., West Boylston
Harsch, John T., Spring House, Pa.
*Hashaway, Thomas, Woonsocket, R. I.
*Hathaway, Mary J., Warren
Hayeck, George N., Worcester
Hayhow, Ernest H., Worcester
Healy, James A., Manchester, N. H.
Hebert, Gerald A., Woonsocket, R. I.
Hebert, Raymond J., Leominster
Hedberg, Stephen E., Worcester
Hemenway, Paul C., Worcester
*Hilmi, Nahida R., Baghdad, Iraq
*Hobbs, Henry E., Oxford
*Holden, Roy N., Worcester
*Holland, Hazel K., Worcester
Holloran, John S., Jr., Monroe, N. Y.
Hook, Grace L., Worcester
Houston, Nancy, Shrewsbury
*Howard, Irving E., Worcester
*Hulbert, Clifton H., Worcester
*Hutchinson, Richard C., Sutton

*Jeyasingham, William L., Manipay, Ceylon
Johnson, Donald E., Holden
*Johnson, Wallace A., Auburn

*Kamandulis, Donald A., Worcester
Kane, Paul V., Worcester
Karamourtopoulos, Charles, Worcester
*Kelleher, Barbara J., Worcester
*Kingsbury, Mildred L., White River Jct., Vermont
*Kircher, Harry B., Belleville, Ill.
Kirshenbaum, Sanford M., Providence, R. I.
*Kistler, Elizabeth J., West Boylston
Kistler, Walter A., West Boylston
Komisar, Agnes, South Hadley Falls
Kosakowski, John S., Worcester
Krajewski, Edward J., Worcester

Labovites, Costas J., Worcester
Laine, Norman R., Worcester
Lambros, Frank H., Dudley
Langdon, George L. J., Mansfield, Pa.
*Lapinskas, Aldonna, Worcester
*Laserte, Robert C., Leominster
*Laws, John S., Worcester
*Leavitt, Marion D., Worcester
*LeClaire, Ramona E., Southbridge
Lee, Harold J., New York, N. Y.
*Lehto, Constance W., Maynard
*Lennon, Alma J., Whiteville, N. C.
Levine, Eleanor Z., Worcester
*Lewis, Peter B., Monson
*Lund, Robert E., Port Chester, N. Y.
Lynskey, Paul J., Jr., Clinton

MacArthur, Kenneth C., Sr., Sterling
*MacArthur, Kenneth C., Jr., Tarrytown, N. Y.
MacCarthy, Ann K., Worcester
Madaus, John H., Worcester
Maghak, Noel J., Baghdad, Iraq
Makowiecki, Michael M., Worcester
Malankowski, Anthony J., Maspeth, L. I., N. Y.
Mann, Stanley J., Worcester
Manoog, John C., Jr., Worcester
*Manyak, Anthony R., East Douglas
Marsella, Robert A., Worcester
*Martin, Eleanor, Marlboro
Maynard, William S., Marlboro
McCarthy, Philip C., Worcester
McDonald, Joanne, Westboro
McGachie, Harry L., Jamaica Plain
*McGillicuddy, Eugene J., Worcester
McGuire, John A., Worcester
McMahon, John C., Jr., Westfield
*McMahon, Paul J., Worcester
*Menke, Mrs. Katherine, Shrewsbury
Mercurio, Vito D., Worcester
*Merriam, George H., Thomaston, Maine
Metcalf, Lorraine A., Worcester
*Milne, Walter L., West Boylston
Milton, Barbara A., Worcester
Mitchell, Mary P., Gilbertville
*Moore, Marilyn, Strafford, Wayne, Pa.
Morey, Howard R., Fiskdale
*Mulvey, Philip F., Jr., Worcester
Murphy, Cornelius B., Worcester

Nagle, Mary E., Worcester
Norman, Albert, Worcester
*Nugent, Edward F., Indianapolis, Ind.
Nylund, Arnold W., Worcester

*Ohtsuka, Noyuri, Tokyo, Japan
Osgood, Samuel M., Elko, Nevada
Ozimek, Henry A., Suffield, Conn.

*Palano, Joseph T., South Barre
*Parsons, Carol E., Auburn
Patterson, Paul M., Worcester
Paul, Marcia M., Worcester
Pelletz, Stanley J., Worcester
*Pentland, Robert H., Worcester
*Perkins, John G., Leominster
*Perry, Waldo E., Holden
Peters, Donald D., Worcester
Petrell, Ralph J., Rockland
*Pietro, John J., Worcester
*Ploteczyk, Raymond A., Westboro
*Poulsen, Roy G., Kingston, R. I.
*Praglin, Mrs. Rosabelle, Urbana, Ill.
*Prince, Paul A., Scranton, Pa.

*Prince, Robert J., Dudley
*Pruser, Etha M., Richmond Hill, N. Y.
Putnam, Beverly M., Worcester
*Putnam, George C., Worcester
Putnam, Patricia A., Worcester

*Reggio, Andre N., Harvard
*Reidy, David R., Worcester
*Richard, Mattie B., Winston-Salem, N. C.
Riordan, James F., Worcester
*Roberts, Andrew W., So. Lancaster
*Roberts, Olive L., So. Lancaster
*Robidoux, Albert P., Moosup, Conn.
Rollins, Joseph, Leicester
*Rosenberg, Beverly I., Worcester

Salley, Paul V., Revere
Salvatelli, Geno F., Leominster
Samara, Joseph, Worcester
Santora, Michael A., Worcester
*Saucier, Ernest R., Leominster
*Savulis, Winifred J., Worcester
*Schoff, Leota E., Holden
Schollard, William J., Worcester
Scola, Daniel A., Worcester
Seaver, Ralph A., Jr., Worcester
*Senanarong, Sawat, Bangkok, Thailand
*Shaw, Arnold R., Worcester
*Shipman, Magill, Potsdam, N. Y.
Showket, Mrs. Subhia M., Worcester
*Sister M. Clarissima, Philadelphia, Pa.
*Sister M. Gregoria, Chester, Pa.
Skrypa, Michael J., Woonsocket, R. I.
*Small, Marcia C., Southbridge
*Smith, Phyllis, Brooklyn, N. Y.
*Smith, Robert K., Fitchburg
*Smolski, Chester E., Worcester
Solomon, Seymour A., Worcester
Spillane, Joan M., West Brookfield
*Stanhope, Russell H., Worcester
*Stanikmas, Phyllis A., Leicester
*Starbird, Myron E., Farmington, Me.
*Stevens, Allison P., Auburn
Strates, Basil S., Philiates-Epirus, Greece
Sullivan, William T., Braintree
*Swanson, Maynard W., Worcester
Swanstrom, John E., Worcester
*Sweenie, H. Gordon, West Millbury
Symonds, Merrill A., Worcester

Tavel, David Z., Dorchester
*Theodore, Louise, Worcester
Tomolonis, Albert J., Buzzards Bay
*Tosi, Peter A., Sterling
*Tucker, Ralph W., Springfield
*Tuttle, Jean W., Worcester

vanLeeuwen, A. Eric, Worcester
*Vasil, George V., Worcester
Vigneault, Robert E., Worcester
Vuona, Joseph P., Worcester

*Wall, Joan G., Worcester
*Waszkiewicz, Chester S., Worcester
Waterman, Nancy M., Hanover, N. H.
*Weiner, Robert S., Briarcliff Manor, N. Y.
Weinstein, Bernard M., Worcester
Wetmore, Melvin A., Norwalk, Conn.
Wheeler, Doanda R., Worcester
Williamson, Janet, Worcester
*Wilson, Avilda D., Worcester
*Wilson, Carol, Worcester
Wilson, Roland W., Brookfield
Witt, Albert V., Leicester
Wood, Alden S., Melrose
*Woodall, J. Arden, Paxton

*Yacino, Frank S. P., East Douglas
Yoffe, Graenem A., Worcester

*Zukowski, Walter H., Worcester

SUMMARY 1951-52

			Men	Women	Total
			487	193	680
	Men	Women			
Freshmen	102	39			
Sophomores	107	53			
Juniors	112	62			
Seniors	166	39			
Graduate Students			146	32	178
Special Students			36	10	46
Auditor			1	1	2
Summer Term (1951)			206	72	278
Total			876	308	1184
Less Duplications			102	25	127
Net Total			774	283	1057

Index

Absences . . . 72
Abstracts of Dissertations and Theses . . . 54, 55
Academic Council . . . 24
Academic Year . . . 7, 38
Accelerated Program . . . 64
Activities, Student . . . 73, 77
Administration . . . 9, 11
Administrative Boards, Committees . . . 23
Admission . . . 37, 51, 52, 60, 61, 63, 76, 81
Advanced Standing . . . 63, 74, 76
Advisers, Faculty . . . 64
Aid, Student . . . 43, 44, 53, 76
Assembly . . . 66, 68, 73
Assistants . . . 44, 53
Athletics . . . 73, 78
Atwood Hall . . . 33
Auditors . . . 37
Bachelor of Arts Degree . . . 30, 32, 37, 61, 66, 67
Bachelor of Bus. Adm. Degree . . . 30, 32, 37, 61, 66, 80, 81
Bachelor of Education Degree . . . 195
Biology . . . 93, 192
Board of Trustees . . . 11
Buildings and Grounds . . . 33
Business Administration . . . 30, 32, 37, 66, 79, 99, 193
Calendar . . . 6, 7
Campus . . . 33, 34
Certificates, Admission by . . . 62
Chemistry . . . 39, 107, 193
Classics . . . 69, 112
Classification of Students . . . 70
College . . . 29, 32, 61, 75, 79
College Board . . . 24, 26
Commencement . . . 7, 8
Degrees . . . 30, 32, 37, 51, 53, 54, 61, 67, 75, 81, 195
Degrees Conferred . . . 196
Dining Hall . . . 35, 41
Diploma Fees . . . 40, 53, 55
Dissertation (Ph.D.) . . . 55
Doctor of Philosophy Degree . . . 32, 51, 54
Dormitories . . . 35, 41, 77, 192
Economics . . . 115, 193

Education 51, 126, 193
Electives 62, 66, 81
Eligibility 74
English 61, 66, 69, 81, 131, 193
Estabrook Hall 35, 41
Examinations for Admission 63
Examinations for Graduate Degrees 54, 56, 58
Examinations, Graduate Record 52
Expenses 38, 42, 59, 192
Extra-Curricular Activities 73, 77
Faculty 9, 12
Fees 38, 59, 73
Fellowships, Graduate 43, 52
Fellowships, Teaching 44
Field Camp, Geography 59, 145
Fine Arts 66, 69, 138
Fine for Late Registration 64
Foreign Language 53, 54, 62, 69, 81
French 53, 54, 185, 194
Freshman Induction 41, 64, 77
Freshman Programs 66, 81
General Education 91
Geography 30, 32, 36, 57, 143, 194
Geology 151
German 53, 54, 152, 194
Grading and Scholarship, Undergraduate 70
Graduate Board 23, 25
Graduate School 29, 32, 51
Greek 69, 113
Gymnasium 35, 78
Health 40, 78, 156
Historical Note 29
History and International Relations 157, 194
Honors, Undergraduate 71, 83
Infirmary 40
Interdepartmental Majors 89
International Affairs 60
International Relations 89, 157
Laboratory Fees and Deposits 39
Laboratory Work in the Field 97, 147
Language Requirements 53, 54, 62, 69, 81
Latin 69, 114
Library 33, 36
Loans to Students 45, 48
Majors, Undergraduate 68
Master of Arts Degree 32, 51, 53, 58

Master of Arts in Education Degree . . . 51, 126
Mathematics . . . 62, 66, 68, 81, 166, 194
Matriculation Fee . . . 38
Medical Directors . . . 11
Men's College . . . 29, 32, 61
Music . . . 69, 141
Organization of the University . . . 32
Philosophy . . . 169
Physical Training . . . 68, 78
Physics . . . 171
Placement Bureau . . . 48
Press, Clark University . . . 32
Programs of Study . . . 54, 66, 71, 80
Psychology . . . 174, 194
Publication Fees . . . 40
Quality Requirements . . . 62, 68, 70
Record, Statement of . . . 38
Refunds of Tuition, Fees and Deposits . . . 39, 40, 54, 55
Register of Students . . . 201
Registration . . . 64
Requirements for the B.A. Degree . . . 67
Requirements for the B.B.A. Degree . . . 81
Requirements for the M.A. Degree . . . 54
Requirements for the M.A. in Ed. Degree . . . 126
Requirements for the Ph.D. Degree . . . 54, 55
Residence . . . 53, 67
Romance Languages . . . 184
Russian . . . 189
Scholarship Society . . . 72
Scholarships . . . 43, 45, 52, 76
Senate . . . 23
Sociology . . . 123, 194
Spanish . . . 187
Special Students . . . 37, 74
Summary, Registration . . . 217
Summary, Degrees Conferred . . . 200
Summer Term . . . 39, 191
Table of Contents . . . 3
Thesis (M.A.) . . . 54, 58, 127
Transfer Students . . . 37, 70, 77
Trustees, Board of . . . 11
Tuition . . . 38, 59, 192
Undergraduate College . . . 32, 61, 75
Veterans . . . 67
Women's College . . . 30, 32, 75
Worcester and the University . . . 31

WELLS BINDERY
WALTHAM, MASS.
MAY 1953